Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

SHOUT
SHARE
IT

Reserve
7241
P43

Pesticides DOCUMENTATION BULLETIN

U.S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY
CURRENT SERIAL RECORDS

Volume 4 Number 11
MAY 24, 1968

NATIONAL AGRICULTURAL LIBRARY · U.S. DEPARTMENT OF AGRICULTURE

Use Pesticides Safely

FOLLOW THE LABEL

U.S. DEPARTMENT OF AGRICULTURE

PESTICIDES DOCUMENTATION BULLETIN

A BI-WEEKLY PUBLICATION OF

U. S. DEPARTMENT OF AGRICULTURE

Volume 4 | May 24, 1968 | Number 11

OBJECTIVES AND SCOPE

The Pesticides Documentation Bulletin is compiled by the Pesticides Information Center, the first of its kind to be established within a national library. It is a bi-weekly index to the literature on pests and their control and the impact on the economy and man's total environment. The index includes literature on diseases, insects, nematodes, parasites, weeds, and other pests affecting plants, animals, man, our natural resources, and other values in man's environment. Literature on biological, chemical, cultural ecological, mechanical, and integrated methods of pest control will be included. Special emphasis is given to the literature on the toxicological, physiological and epidemiological aspects of pests and their control by chemical and nonchemical methods.

For broader coverage of literature on agriculture and related subjects, please consult the Bibliography of Agriculture, a monthly publication of the National Agricultural Library.

FORMAT

The Bulletin is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

AVAILABILITY OF REFERENCES CITED

Search Requests

Each item appearing in the current format of the Bulletin is maintained in magnetic tape files which are fully searchable.

Search requests may be submitted to:

U.S. Department of Agriculture
National Agricultural Library
PESTICIDES INFORMATION CENTER
Room 4112 - Auditors Building
Washington, D.C. 20250

Loans

Most of the material in the National Agricultural Library collection may be borrowed by employees of the Department of Agriculture and by other libraries. In requesting loans, please include the Library call number found with the citation. Loan of periodicals is restricted to the Washington, D. C. area. Foreign statistical publications and rare books are loaned only by special arrangement.

Free Distribution

U.S.D.A. publications: Domestic requests for publications of the United States Department of Agriculture will be supplied free to libraries and other qualified agencies and organizations upon application to the United States Department of Agriculture, Office of Information, Washington D. C. 20250, as long as the supply lasts. Foreign institutions, organizations and agencies which issue publications may obtain U.S.D.A. publications in exchange by writing to the United States Department of Agriculture, National Agricultural Library, Exchange Unit, Washington, D.C., 20250.

State Agricultural Experiment Station and Extension Service publications are available except where noted, and as long as the supply lasts, from the issuing station or service. The National Agricultural Library does not distribute them; however, reproductions are available at regular Library rates.

Reproduction

All articles listed may be obtained in microfilm or photoprint form from the United States Department of Agriculture, National Agricultural Library, Photoduplication Section, Washington, D. C., 20250. Copying charges for each periodical or book are:

MICROFILMS: $1.00 for each 30 pages or fraction copied from a single article or book.

PHOTOPRINTS: $1.00 for each 4 pages or fraction copied from a single article or book.

RUSH SERVICE: Will be furnished upon payment of $1.00 additional for each order.

Payment must accompany the order. Cash, Library coupons, check or money order drawn to the National Agricultural Library, U.S.D.A., are acceptable. Payment for orders originating outside of the United States should be made by American bank, or by UNESCO book coupons. Superintendent of Documents coupons and requests to furnish photocopy to be paid from Superintendent of Documents Deposit funds cannot be honored. Credit may be extended only to Government agencies and institutions. Billing address should be indicated.

Library Coupons

National Agricultural Library coupons, valued at $1.00 each, may be purchased in any quantity.

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C., 20402. $14.00 per year, domestic; $17.50 per year, foreign. Single copies vary in price.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (March 29, 1966).

PLEASE GIVE COMPLETE BIBLIOGRAPHIC INFORMATION AS IT APPEARS IN THIS PUBLICATION FOR EACH ITEM REQUESTED.

ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

NATIONAL AGRICULTURAL LIBRARY

U. S. DEPARTMENT OF AGRICULTURE

A N N O U N C E M E N T

These issues of the Pesticides Documentation Bulletin introduce a new computer generated current awareness service. Through the Pesticides Information Center's Update, Publication and Search (PICUPS) system, a categorized bibliographic citation file, accompanied by subject, author, organization and biographical indices will be issued bi-weekly.

All elements of the citations maintained in this mechanized file system are searchable by computer. In addition to the printed subject descriptors appearing in the Bulletin, other subject descriptors are incorporated in the tape file system as machine searchable but non-printable items. In the early issues some of these subject terms appear in the Bulletin as duplications. These duplications will be eliminated in later programs.

Since retrospective information was not previously published in searchable form, the next several issues of the Bulletin will contain selected coverage of pest control literature issued between 1960 and 1966. Additional retrospective material will be incorporated in future bulletins through the special bibliographies prepared by the Center. Current pest control literature will receive comprehensive coverage. Future expansion will include selected abstracts when such abstracts appear in the source document.

Recipients of this introductory issue are invited to send their comments and suggestions for its improvement to the U.S. Department of Agriculture, National Agricultural Library, Pesticides Information Center, 4112-Auditors Building, Washington, D. C. 20250. These comments together with computer produced statistical analyses will provide the bases for future changes.

Blanche L. Oliveri

Blanche L. Oliveri
Acting Director
National Agricultural Library

TABLE OF CONTENTS

Items	Page
BIBLIOGRAPHY (Citations)	
10 ENTOMOLOGY	1
Systematics	1
Physiology and Biochemistry	1
Genetics	5
Medical Entomology	6
20 CROP PROTECTION	7
Diseases	7
Arthropods	12
Nematodes	15
Weeds	16
Other Pests	17
30 LIVESTOCK PROTECTION	17
Diseases	17
Arthropods	26
Parasites	27
40 COMMODITY PROTECTION	29
Storage Diseases	29
Arthropods	29
Rodents and Other Pests	*
Microbial Contamination	30
50 ENVIRONMENTAL CONTAMINATION	30
55 RESIDUES	31
60 TOXICOLOGY	32
65 PLANT PHYSIOLOGY & BIOCHEMISTRY	33
70 CHEMISTRY	34
80 ENGINEERING	37
90 INDUSTRY	38
Economics	38
Education	38
Regulations	39
SUBJECT INDEX	41
BIOGRAPHICAL INDEX	99
AUTHOR INDEX	103
ORGANIZATIONAL INDEX	107

*This issue does not contain citations under this category.

Note: Mention of a company name or a proprietary product does not necessarily imply endorsement by the U. S. Department of Agriculture, NATIONAL AGRICULTURAL LIBRARY, PESTICIDES INFORMATION CENTER.

10 ENTOMOLOGY

Systematics

12295-68
STUDY OF THE DISPERSION AND FLIGHT RANGE OF ANOPHELES SERGENTI THEO IN SIWA OASIS USING RADIOACTIVE ISOTOPES AS MARKERS.
A A Abdel-Malek M A Abdel-Aal
World Health Organ Bull 35(6)0968-973, MAP, REF.
1966 449.9 W892B
Insect dissemination, Radioactive tracers.

12296-68
SEASONAL MOVEMENTS OF SWARMS OF LOCUSTA MIGRATORIA MIGRATORIOIDES (R. AND F.) IN WESTERN AFRICA IN 1928 TO 1931.
A Batten
Bull Entomol Res 57(3)0357-380, MAP, REF.
Nov 1967 421 B87
Insect dissemination, Locusta migratoria.

12297-68
STRUCTURE AND FUNCTION OF THE EXTRANEURAL SHEATH IN INSECTS.
P S Boulton C H F Rowell
Nature 217(5126):379-380
27 Jan 1968 472 N21
Insect histology, Insect physiology, Nerves, Schistocerca gregaria, Sphodromantis.

12298-68
FIVE NEW PHYTOSEID MITES FROM U.A.R., WITH COLLECTION NOTES ON THREE OTHER SPECIES (ACARINA: PHYTOSEIIDAE).
E A El Badry
Indian J Entomol 29(2):177-184
Jun 1967 420 IN23
Amblyseius, Cotton, Eggplant, Egypt, Host specificity, Insect biology, Insect taxonomy, Mangoes, Mites, Phytoseiidae, Phytoseius, Typhlodromus.

12299-68
AN EVALUATION OF THE BOTTOM FAUNA AND ITS ROLE AS FISH FOOD IN FERN LAKE, WASHINGTON.
H E Klaassen
Diss Abstr Sect B 28(3):12758
Sep 1967 Z5055.U49D53
Aquatic insects, Chaoborus, Fish, Tendipes, Theses.

12300-68
A THEORETICAL EVALOATION OF POPULATION GROWTH AFTER REMOVING INDIVIDUALS FROM SOME AGE GROUPS.
L P Lefkovitch
Bull Entomol Res 57(3)0437-445, REF.
Nov 1967 421 B87
Insect populations, Lasioderma serricorne, Mathematical analysis.

12301-68
THE HORIZONTAL AND VERTICAL DISTRIBUTION OF FLYING INSECTS NEAR ARTIFICIAL WINDBREAKS.
T Lewis
Ann Appl Biol 60(1):23-31
Aug 1967 442.8 AN72
Insect dissemination, Insect traps, Insects, Windbreaks, Zoogeography.

12302-68
AN ECOLOGICAL STUDY OF CHAOBORUS.
K W Malueg
Diss Abstr Sect B 28(3):12778
Sep 1967 Z5055.U49D53
Aquatic insects, Chaoborus punctipennis, Insect ecology, Iodine isotopes, Radioactive tracers.

12303-68
FLUCTUATIONS IN DISTRIBUTION AND ABUNDANCE OF AEDES VEXANS (MEIGEN) IN SALT LAKE COUNTY.
K L Minson J E Graham
Calif Mosquito Contr Ass Proc Pap 35:95-98,MAP
1967 428 C763
Aedes vexans, Insect populations.

12304-68
THE DRAGONFLIES (ODONATA: ANISOPTERA) OF SOUTHERN FLORIDA.
D R Paulson
Diss Abstr Sect B 28(3):1282B
Sep 1967 Z5055.U49D53
Insect ecology, Insect taxonomy, Odonata.

12305-68
POPULATION DYNAMICS OF THE WALNUT APHID, CHROMAPHIS JUGLANDICOLA (KALT) IN NORTHERN CALIFORNIA.
R R Sluss
Ecology 48(1):41-58, WINTER ISSUE. REF
1967 410 EC7
Chromaphis juglandicola, Insect populations, Walnuts.
Abstract

12306-68
REPRODUCTION IN THE FLESHFLY, SARCOPHAGA BULLATA, AND ITS ENDOCRINE CONTROL.
J L Wilkens
Diss Abstr Sect B 28(3):1293B-1294B
Sep 1967 Z5055.U49D53
Endocrine glands, Reproduction, Sarcophaga bullata.

12307-68
BIONOMICS AND ZOOGEOGRAPHY OF TIGER BEETLES OF SALINE HABITATS IN THE CENTRAL UNITED STATES (COLEOPTERA: CICINDELIDAE).
H L Willis
Diss Abstr Sect B 28(3):1294B
Sep 1967 Z5055.U49D53
Cicindelidae, Habitats, Insect ecology, Saline soils, Theses, Zoogeography.

Physiology and Biochemistry

12308-68
EFFECT OF MINUS 29 DEGREES F ON OVERWINTERING POPULATIONS OF THE BALSAM WOOLLY APHID IN NORTH CAROLINA.
G D Amman
J Econ Entomol 60(6):1765-1766
Dec 1967 421 J822
Adelges piceae, Cold, Forest insects, Hibernation, Insect mortality, Temperature.

12309-68
AN AUTORADIOGRAPHIC STUDY OF RNA SYNTHESIS IN ISOLATED SALIVARY GLANDS OF OROSOPHILA HYDEI.
D G Arnold
Diss Abstr Sect B 28(3):12608-12618
Sep 1967 Z5055.U49D53
Autoradiography, Drosophila hydei, Ribonucleic acid, Salivary glands (insects).

12310-68
METHODS OF SEXING LIVE ADULT WESTERN PINE BEETLES.
N L Ate W D Bedard
J Econ Entomol 60(6):1688-1690
Dec 1967 421 J822
Dendroctonus brevicomis, Forest insects, Insect biology, Insect rearing, Pinus ponderosa, Sex attractants, Sex behavior, Stridulation.
Abstract

12311-68
THE INCIDENCE OF VIRUS DISEASES IN THE HONEY BEE.
L Bailey
Ann Appl Biol 60(1)043-48, REF.
Aug 1967 442.8 AN72
Apis mellifera, Sacbrood.

12312-68
THE EFFECTS OF DIFFERENT APHID FOODS ON ADALIA BIPONCTATA L AND COCCINELLA 7-PONCTATA L.
R L Blackman
Ann Appl Biol 59(2):207-219 Ref
Apr 1967 442.8 An72
Adalia bipunctata, Coccinella 7-punctata, Insect nutrition, Predaceous insects.
Abstract

10 12313-68

12313-68
DRAGONFLIES AS BENEFICIAL INSECTS OF FOREST COMMUNITIES. (S1)
S 8ielawis
Gozdarski Vestnik 25(5,6):148-153
1967 99.8 G74
Beneficial insects, Forest insects, Odonata.

12314-68
COMPOSITION AND POSSIBLE SIGNIFICANCE OF FATTY ACIDS IN THE LIPID CLASSES IN HONEY BEE SEMEN. (CHEMISTRY OF THE DRONE HONEY BEE REPRODUCTIVE SYSTEM. 4.).
M S Blum J E Bumgarner S Taber
J Insect Physiol 13(9):1301-1308 REF
Sep 1967 421 J825
Apis mellitera, Fatty acids, Lipids, Phospholipids, Reproduction, Semen.
Abstract

12315-68
A METHOD OF DETERMINING RATE AND TIME OF EGG DEPOSITION 8Y INSECTS.
H P Boles P G Mahany
J Econ Entomol 60(6):1763
Dec 1967 421 J822
Cadra cautella, Insect cages, Insect eggs, Ovipositors.

12316-68
FACTORS INFLUENCING THE RESPONSE OF IPS CONFDSUS (COLEOPTERA: SCOLYTIDAE) TO MALE ATTRACTANT.
J H Borden
Can Entomol 99(11):1164-1193 REF
Nov 1967 421 C16
Attractants, Insect behavior, Insect flight, Ips confusus, Light, Scolytidae, Temperature.
Abstract

12317-68
ST8AIN-GADGE TRANSDUCER STDDIES ON INTRATRACHEAL PRESSDRE AND PUPAL LENGTH DURING DISCONTINUOUS RESPIRATION IN DIAPADSING SILKWORM PDPAE.
A P Brockway H A Schneiderman
J Insect Physiol 13(9):1413-1451 REF
Dec 1967 421 J825
Diapause, Hyalophora cecropia, Insect respiration, Pupae, Strain gauges, Transducers.
Abstract

12318-68
TOXICITY OF INSECTICIDES TO HOUSE CRICKETS AND BIOASSAY OF TREATED SOILS IN THE LABORATORY.
C C Burkhardt M L Fairchild
J Econ Entomol 6D(6):1496-15D3 REF
Dec 1967 421 J822
Acheta domesticus, Aldrin, Biological assay, Diazinon, Heptachlor, Household insects, Insecticide application, Insecticides, Soils, Toxicity.
Abstract

12319-68
A8NO8MALITIES OF GROWTH AND METAMORPHOSIS IN SOME PYRRHOCORID BDGS. THE PAPER FACTOR.
D B Carlisle P E Ellis
8ull Entomol Res 57(3)0405-417 REF.
Nov 1967 421 B87
Insect abnormalities, Metamorphosis, Pyrrhocoris apterus.

1232D-68
METABOLISM OF HEMPA UNIFORMLY LABELED WITH C14 IN MALE HODSE FLIES.
S C Chang F H Terry C W Woods A 8 8orkovec
J Econ Entomol 60(6):1623-1631 REF
Dec 1967 421 J822
Chemosterilants, Chromatography, Hempa, Insect metabolism, Musca domestica.
Abstract

12321-68
THE UTILIZATION OF SUGARS 8Y INSECT CELLS IN CULTURE.
A N Clements T D C Grace
J Insect Physiol 13(9):1327-1332 REF
Dec 1967 421 J825
Antheraea eucalypti, Cells, Culture media, Fructose, Insect metabolism, Sugar, Trehalose.
Abstract

12322-68
SOME FACTORS AFFECTING KILL OF THE STABLE FLY, STOMOXYS CALCITRANS (L.), WITH INSECTICIDAL THERMAL AEROSOLS. (ABSTRACT).
8 W Clements A J Rogers
Calif Mosquito Contr Ass Proc Pap 35:1D9
1967 428 C763
Aerosols, Chemical control (insects), Insecticide application, Naled, Stomoxys calcitrans.
Abstract:
visual presence does not assure satisfactory kill. for good kill of insects with aerosols, an effective dosage of the toxicant must be applied.

12323-68
TERMINATION OF DIAPAUSE IN THE CEREAL LEAF 8EETLE BY HORMONES.
R V Connin O K Jantz W S Bowers
J Econ Entomol 6D(6):1752-1753
Dec 1967 421 J822
Diapause, Hormones, Insect eggs, Insect physiology, Oulema melanopus.

12324-68
THE RELEASE OF TRIGLYCERIDES AND F8EE FATTY ACIDS FROM THE FAT 8ODY OF THE COCKROACH, PERIPLANETA AMERICANA.
B J Cook L C Eddington
J Insect Physiol 13(9):1361-1372 REF
Dec 1967 421 J825
Fat body, Fatty acids, Glycerides, Hormones, Insect metabolism, Lipids, Periplaneta americana.
Abstract

12325-68
EXTRACELLULAR POTENTIALS IN THE LOCUST EYE AND OPTIC LOBE.
D J Cosens
J Insect Physiol 13(9):1373-1386 REF
Dec 1967 421 J825
Extracellular substances, Eyes, Schistocerca gregaria.
Abstract

12326-68
CHANGES IN THE AMOUNTS OF CARBOHYDRATES, PHOSPHAGEN, AND RELATED COMPODNDS DDRING THE METAMORPHOSIS OF THE BLOWFLY, LUCILIA CUPRINA.
M Crompton L M Birt
J Insect Physiol 13(1D):1575-1592 REF
Dec 1967 421 J825
Carbohydrates, Lucilia cuprina, Metamorphosis.
Abstract:
it is concluded that the energy requirements are provided principally by utilization of protein and fat (during pupal and late pharate adult development) and that the contribution of carbohydrate is very small.

12327-68
CONTINUOUS REARING OF APHIDS OF THE APHIS FA8AE COMPLEX ON STERILE SYNTHETIC DIET.
R H Dadd D L Krieger
J Econ Entomol 6D(6):1512-1514 REF
Dec 1967 421 J822
Aphis fabae, Insect nutrition, Insect rearing, Synthetic diets.
Abstract

12328-68
PRELIMINARY OBSERVATIONS ON THE IN VITRO PHOTOREACTIVATION OF AN INSECT VIRUS INACTIVATED WITH ULTRAVIOLET RADIATIOND.
I A David I A Magnus
J Invertebrate Pathol 9(2), 266-268.
Jun 1967 421 J826
Granuloses, Photoreactivation, Ultraviolet rays, Virus diseases (insects).

12329-68
COLD-HARDINESS OF EMPOASCA FA8AE AND SOME RELATED SPECIES.
G C Decker J V Maddox
J Econ Entomol 6D(6):1641-1645
Dec 1967 421 J822
Cold, Empoasca fabae, Empoasca kraemeri, Hibernation, Insect mortality, Temperature.
Abstract

12330-68
THE CONVERSION OF CHOLESTANONE TO CHOLESTANOL 8Y THE HOUSEFLY, MUSCA DOMESTICA L.
R C Dutky W E Robbins T J Shortino J N Kaplanis H E Vroman
J Insect Physiol 13(1D):1501-1510 REF
Oct 1967 421 J825
Cholestanol, Cholestanone, Insect metabolism, Insect nutrition, Larvae, Musca domestica, Sterols.
Abstract

12331-68
SOME DISTINCTIONS 8ETWEEN THE LARVAE AND PUPAE OF THE EMPIOIDAE AND DOLICHOPODIDAE (DIPTERA).
C E Dyte
Roy Entomol Soc London Proc Ser A Gen Entomol
42(7/9):119-128 REF
26 Sep 1967 420 L84PA
Dolichopodidae, Empididae, Insect taxonomy, Larvae, Pupae.

12332-68
UPTAKE OF DDT BY THE AMERICAN COCKROACH CENTRAL NERVOUS SYSTEM.
J L Eaton J G Sternburg
J Econ Entomol 60(6):1699-1703 REF
Dec 1967 421 J822
Central nervous system, Chemoreceptors, Odt, Periplaneta americana.
Abstract

12333-68
CARBONIC ANHYDRASE IN THE HOUSE CRICKET, ACHETA DOMESTICUS.
L J Edwards R L Patton
J Insect Physiol 13(9):1333-1341 REF
Dec 1967 421 J825
Acheta domesticus, Carbonic anhydrase, Electrometry, Enzymes, Insect respiration.
Abstract

12334-68
VIRUS-LIKE PARTICLES IN INSECT CELLS OF THREE TYPES.
8 K Filshie T O C Grace D F Poulson J Rehacek
J Invertebrate Pathol 9(2), 271-273.
Jun 1967 421 J826
Aedes aegypti, Antheraea eucalypti, Bacillus thuringiensis, Drosophila melanogaster, Electron microscopy, Virus diseases (insects).

12335-68
JOINT ACTION OF SKF 525-A AND SESAMEX INSECTICIDES IN SUSCEPTI8LE AND RESISTANT HOUSE FLIES.
A J Forgash
J Econ Entomol 60(6):1596-1600 REF
Dec 1967 421 J822
Insecticide resistant insects, Musca domestica, Sesamex, SKF 525-A.
Abstract

12336-68
ECOLOGY AND CONTROL OF LEPTOCONOPS KERTESZI 8ITING GNATS IN SOOTHERN CALIFORNIA. (A8STRACT).
J D Foulk
Calif Mosquito Contr Ass Proc Pap 35:88
1967 428 C763
Cultural control (insects), Insect ecology.

12337-68
CALCIFICATION, TANNING, AND THE ROLE OF ECDYSON IN THE FORMATION OF THE POPARIOM OF THE FACEPLY, MUSCA AUTUMNALIS.
G Fraenkel C Hsiao
J Insect Physiol 13(9):1387-1394 REF
Dec 1967 421 J825
Calcification (physiological), Ecdysone, Hormones, Insect physiology, Musca autumnalis, Pupal cases, Tanning.
Abstract

12338-68
JOGLONE (5-HYDROXY-1,4-NAPHTHOQOINONE) FROM CARYA OVATA, A DETERRENT TO FEEDING BY SCOLYTUS MULTISTRIATUS.
B L Gilbert J E 8aker D M Norris
J Insect Physiol 13(10):1453-1459
Oct 1967 421 J825
8ark, Benzene, Carya, Feeding, Forest insects, Host specificity, Juglone, Plant extracts, Plant pest resistance, Scolytus multistriatus.
Abstract

12339-68
MATING BEHAVIOR AND POPOLATION OYNAMICS OF THE 8OLL WEEVIL AS RELATED TO THE STERILE-MALE-TECRNIQUE OF INSECT CONTRCL.
F R Gilliland
Diss Abstr Sect 8 28(3):12698
Sep 1967 Z5055.049D53
Anthonomus grandis, Apholate, Chemical control (insects), Chemosterilants, Cotton, Population, Sex behavior.

12340-68
MOSQUITO CONTROL ON SMITH MOUNTAIN RESERVOIR 8Y PUMPED STORAGE WATER LEVEL MANAGEMENT.
W J Gladney
Diss Abstr Sect B 28(3):929B
Sep 1967 Z5055.049D53
Culicidae, Hydrology, Insect control, Reservoirs, Theses, Water storage.

12341-68
CHEMICALS TESTED AS SPACE REPELLENTS AGAINST YELLOW-FEVER MOSQUITOES. I. ESTERS.
H Gouck T P McGovern M Beroza
J Econ Entomol 60(6):1587-1590
Dec 1967 421 J822
Aedes aegypti, Chemicals, Hydroxy esters, Insect repellents.
Abstract:
the 5 compounds that were effective more than 100 days were: dipentyl, diisopentyl, and bis(1-methylbutyl) malate, hexyl p-isopropyl-mandelate, and bis(2-ethylhexyl) fumarate. esters with a hydroxyl group appeared to be more effective as space repellents against yellow-fever mosquitoes.

12342-68
THE REGENERATION OF MOTOR AXONS IN AN INSECT.
D M Guthrie
J Insect Physiol 13(10):1593-1611 REF
Dec 1967 421 J825
Insect physiology, Legs, Locomotion, Muscles, Nerves, Periplaneta americana.
Abstract

12343-68
FACTORS AFFECTING THE TOXICITY OF DIAZINON MUSCA DOMESTICA L.
M Gwiazda K A Lord
Ann Appl Biol 59(2):221-232
Apr 1967 442.8 An72
Diazinon, Diazoxon, Insecticide resistant insects, Musca domestica, Radioactivity, Toxicity.
Abstract

12344-68
SURVIVAL AND DEVELOPMENT OF EOROPEAN CORN BORERS FED GOSSYPOL IN ARTIFICIAL DIETS.
J A Rarding T A Brindley R C Dyar
J Econ Entomol 60(6):1764-1765
Dec 1967 421 J822
Gossypol, Insect mortality, Insect nutrition, Insect rearing, Ostrinia nubilalis, Synthetic diets.

12345-68
FLIGHT ANO OISPERSAL OF THE WHITE-PINE WEEVIL.
O M Harman H M Kulman
J Econ Entomol 60(6):1682-1687
Dec 1967 421 J822
Forest insects, Insect dissemination, Insect flight, Pinus, Pissodes strobi.
Abstract

12346-68
INFLUENCE OF LIGHT ON DIAPAUSE IN THE BOLL WEEVIL. I. DEPENDENCE OF DIAPAUSE RESPONSE ON THE SPECTRAL COMPOSITION OF THE LIGHT USED TO EXTEND THE PHOTOPERIOD.
F A Harris E P Lloyd H C Lane E C 8urt
J Econ Entomol 60(6):1565-1567
Dec 1967 421 J822
Anthonomus grandis, Diapause, Light, Photoperiodism.
Abstract

12347-68
ACTIVE TRANSPORT OF POTASSIUM AND OXYGEN CONSUMPTION IN THE ISOLATED MIDGOT OF RYALOPHORA CECROPIA.
W R Harvey J A Haskell K Zerahn
J Exp Biol 46(2):235-248
Apr 1967 442.8 877
Hyalophora cecropia, Insect metabolism, Oxygen, Potassium.

12348-68
HEAT TOLERANCE OF LAST-INSTAR LARVAE OF THE LARCH SAWFLY, PRISTIPHORA ERICHSONII (HYMENOPTERA: TENTHREDINIDAE).
R J Heron
Can Entomol 99(11):1150-1156 REF
Nov 1967 421 C16
Forest insects, Heat, Insect temperature, Larvae, Mortality, Pristiphora erichsonii.
Abstract

12349-68
THE ACTION OF THE MALE GENITALIA DURING THE COPULATION OF THE HEN FLEA, CERATOPHYLLUS GALLINAE (SCRRANK).
D A Humphries
Roy Entomol Soc London Proc Ser A Gen Entomol
42(7/9):101-106 REF

1D 1235D-68

26 Sep 1967 42D LB4PA
Ceratophyllus gallinae, Reproductive organs, Sex behavior.

1235D-68
CONTROL OF FRUIT FLIES DACUS ZONATUS SAUNDERS BY GAMMA-RAYS.
M Huque Q R Malik
Int J Appl Radiat Isotop 18(9):658-661
Sep 1967 334.8 In84
Biological control (insects), Dacus zonatus, Gamma rays, Guavas, Jujube, Mangoes, Okra, Peaches, Sterilization.

12351-68
ATTRACTANT AND STIMULANT FACTORS FOR OVIPOSITION OF CDIEX PIPIENS FATIGANS IN NATDRAL BREEDING SITES.
T Ikeshoji
World Health Organ Bull 35(6)09D5-912
1966 449.9 WB92B
Attractants, Culex pipiens quinquefasciatus, Stimulants, Water.
Abstract

12352-68
DETERMINATION OF PREMATURE LARVAL DROP AND OTHER CADSES OF LARCH SAWFLY MORTALITY.
W G H Ives
Can Entomol 99(11):1121-1131
Nov 1967 421 C16
Bessa harveyi, Forest insects, Insect populations, Insect traps, Larix laricina, Larvae, Mortality, Parasitism, Pristiphora erichsonii.
Abstract

12353-68
EFFECTS OF REPEATED HAEMOLYMPH WITHDRAWALS AND OF LIGATDRING THE HEAD ON DIFFERENTIAL HAEMOCYTE CODNTS OF RHODNIDS PROLIXDS STAL.
J C Jones
J Insect Physiol 13(9):1351-136D
Dec 1967 421 J825
Blood, Hormones, Insect nutrition, Larvae, Molting (insects), Rhodnius prolixus.
Abstract

12354-68
PREVENTIVE MEASURES FOR THE PROTECTION OF WOOD AGAINST HYLOTRUPES BAJULUS. (Sl)
L Kervina
Gozdarski Vestnik 25(5,6):143-148 Ref
1967 99.8 G74
Boron plus chromium plus copper salts, Chemical control (pests), Hylotrupes bajulus, Insecticides, Wood borers.

12355-6B
ELECTROPHYSIOLOGICAL STUDIES OF OLFACTORY RECEPTOR CELLS IN THE ANTENNAE OF FEMALE MOSQDITOES (AEDES AEGYPTI L.). (GE)
V Lacher
J Insect Physiol 13(10):1461-1470 REF
Oct 1967 421 J825
Aedes aegypti, Antennae, Cells, Electrophysiology, Olfactory receptors, Sense organs.
Abstract

12356-68
DIGESTION IN THE TSETSE FLY GLOSSINA MORSITANS WESTW. THE EFFECT OF FEEDING FIELD-CAUGHT FLIES ON GUINEA PIGS IN THE LABCRATORY.
P A Langley
Bull Entomol Res 57(3):447-450
Nov 1967 421 B87
Glossina morsitans, Insect rearing.

12357-68
SILKING BEHAVIOR OF THE GYPSY MOTH, PORTHETRIA DISPAR.
D F Leonard
Can Entomol 99(11):1145-1149
Nov 1967 421 C16
Insect behavior, Larvae, Porthetria dispar, Silk.
Abstract

12358-68
TOXICITY OF FIVE INSECTICIDES TO SEVERAL INSECT PREDATORS.
P L Lingren R L Ridgway
J Econ Entomol 6D(6):1639-1641 REF
Dec 1967 421 J822
Bidrin, Chemical control (insects), Chrysopa carnea, Demeton, Geocoris punctipes, Hippodamia convergens, Methyl parathion, Nabis americoferus, Orius insidiosus, Phosphamidon, Toxicity, Trichlorfon.

Abstract

12359-68
DOUGLAS-FIR TUSSOCK MOTH (HEMEROCAMPA PSEUDOTSDGATA) EGG-MASS DISTRIBUTION ON WHITE FIR IN NORTHEASTERN CALIFORNIA.
R F Luck D L Dahlsten
Can Entomol 99(11):1193-12D3 REF
Nov 1967 421 C16
Abies concolor, Forest insects, Hemerocampa pseudotsugata, Insect eggs, Sampling (statistics).
Abstract

1236D-68
EXPERIMENTAL INDDCTION AND ELIMINATION OF ADDLT DIAPAUSE AND AUTDMNAL COLORATION IN CHRYSOPA CARNEA (NEUROPTERA).
E G MacLeod
J Insect Physiol 13(9):1343-1349 REF
Dec 1967 421 J825
Chrysopa carnea, Color, Diapause, Photoperiodism, Reproduction, Temperature.
Abstract

12361-68
A SIMPLE METHOD FOR MASS REARING OF TRE SEED-CORN MAGGOT, HYLEMYA PLATDRA MEIGEN (DIPTERA, ANTROMYIIDAE). (JA)
Y Matsumoto S Sugiyama
Nogaku Kenkyu (Rep Ohara Inst Agr Biol) 51(4):221- 225 Ref
Mar 1967 22.5 N684
Corn, Hylemya platura, Insect rearing.

12362-68
IMMATURE STAGES OF SCME LEPIDOPTERA OF DURANGO, MEXICO.
W C McGuffin
Can Entomol 99(11):1215-1229 REF
Nov 1967 421 C16
Larvae, Lepidoptera, Metamorphosis, Metamorphosis, Mexico.
Abstract

12363-68
THE FORMATION OF LIPID-BOUND CARNITINE DERIVATIVES IN THE FAT BODY OF PHORMIA REGINA.
C Mezei R W Newburgh
J Insect Physiol 13(1D):1489-1499
Oct 1967 421 J825
Carnitine, Fat body, Insect metabolism, Lipids, Phormia regina.
Abstract

12364-68
THE DERIVATION OF THE MOTOR COMMAND TO THE SPIRACLES OF THE LOCUST.
P L Miller
J Exp Biol 46(2):349-371 REF
Apr 1967 442.8 B77
Acrididae, Cicadidae, Nervous system.

12365-68
THE BIOLOGY AND ECOLOGY OF THE PINE ROOT COLLAR WEEVIL, HYLOBIDS RADICIS BDCHANAN, IN WISCONSIN.
I Millers
Diss Abstr Sect B 28(3):753B
Sep 1967 Z5055.D49D53
Hylobius radicis, Pinus.

12366-68
ATTRACTIVENESS TO NITIDULIDAE (COLEOPTERA) OF NATDRAL ATTRAHENTS OF TREES AND FUNGDS ORIGIN SDPPLEMENTED WITH VINEGAR AND WATER IN AN APPALACHIAN HARDWOOD FOREST.
W W Neel B D Glick L L May R P True
J Econ Entomol 60 (4)D11D4-1108
15 Aug 1967 421 J822
Acer rubrum, Attractants, Fungi, Quercus rubra, Tree injuries, Trees, Vinegar.
Abstract

12367-68
THE FLIGHT ACTIVITY OF SOME BRITISH HEMEROBIIDAE AND CHRYSOPIDAE, AS INDICATED BY SUCTION-TRAP CATCHES.
T R New
Roy Entomol Soc London Proc Ser A Gen Entomol
42(7/9):93-1DD REF
26 Sep 1967 42D L84PA
Chrysopidae, Insect flight, Suction traps.

12368-68
RESISTANCE IN AEDES AEGYPTI TO CHEMOSTERILANTS. EFFECT OF APHOLATE SELECTION ON RESISTANCE TO APHOLATE, TEPA, AND METEPA.
R S Patterson C S Lofgren M D Boston
J Econ Entomol 6D(6):1673-1675

Dec 1967 421 JB22
Aedes aegypti, Apholate, Chemosterilants,
Insecticide resistant insects, Metepa, Sterilization, Tepa.
Abstract

12369-68
TERATOGENIC EFFECTS OF A TRANQUILIZER, TRIFLUOPERAZINE DIHYDROCHLORIDE ON THE YELLOW-FEVER MOSQUITO.
M S Quraishi
J Econ Entomol 60(6):1650-1655 REF
Dec 1967 421 J822
Aedes aegypti, Insect abnormalities, Tranquilizers.
Abstract

12370-68
GAMMA IRRADIATION OF EUROPEAN CORN BORER LARVAE.
E S Raun L C Lewis J C Picken D K Hotchkiss
J Econ Entomol 60(6):1724-1730
Dec 1967 421 J822
Gamma rays, Insect mortality, Insect rearing, Larvae,
Ostrinia nubilalis, Sterilization.
Abstract

12371-68
OVIPOSITION BY ONION MAGGOT ADULTS FED ON A CHEMICALLY DEFINED DIET.
W A Rawlins
J Econ Entomol 60(6):1747-1748
Dec 1967 421 J822
Hylemya antiqua, Insect mortality, Insect nutrition,
Insect rearing, Larvae, Onions, Ovipositors, Synthetic diets.

12372-68
THE SUITABILITY OF A NEMATODE (DD-136) FOR THE CONTROL OF SOME PASTURE INSECTS.
E M Reed P B Carne
J Invertebrate Pathol 9(2), 196-204.
Jun 1967 421 J826
Biological control (insects), Galleria mellonella, Mortality,
Oncopera fasciculata, Othonius, Parasitism, Plant nematodes,
Sericesthis.
Abstract

12373-68
A STUDY OF DIELDRIN IN THE HOUSE FLY CENTRAL NERVOUS SYSTEM IN RELATION TO DIELDRIN RESISTANCE.
C H Schaefer Y P Sun
J Econ Entomol 60(6):1580-1583 REF
Dec 1967 421 J822
Central nervous system, Dieldrin,
Insecticide resistant insects, Musca domestica.
Abstract:
dieldrin resistance in house flies may be largely due to insensitivity at the receptor site.

12374-68
SEX PHEROMONES OF NOCTUID MOTHS. XIV. FEASIBILITY OF BEHAVIORAL CONTROL BY DISRUPTING PHEROMONE COMMUNICATION IN CABBAGE LOOPERS.
H H Shorey L K Gaston C A Saario
J Econ Entomol 60(6):1541-1545 REF
Dec 1967 421 J822
Insect behavior, Pheromones, Sense organs, Sex attractants,
Trichoplusia ni.
Abstract

12375-68
EFFECT OF AERATION ON GAMMA IRRADIATION OF HOUSE FLY PUPAE.
B J Smittle
J Econ Entomol 60(6):1594-1596
Dec 1967 421 J822
Gamma rays, Musca domestica, Oxygen, Pupae, Sterilization.
Abstract

12376-68
ESTIVATION STUDIES OF THE CONVERGENT LADY BEETLE IN ARKANSAS.
J W Stewart W H Whitcomb K O Bell
J Econ Entomol 60(6):1730-1735 REF
Dec 1967 421 J822
Hibernation, Hippodamia convergens.
Abstract

12377-68
ACTIVITY OF TOBACCO HORNWORM AND CORN EARWORM MOTHS AS DETERMINED BY TRAPS EQUIPPED WITH BLACKLIGHT LAMPS.
P A Stewart J J Lam J D Hoffman
J Econ Entomol 60(6):1520-1522
Dec 1967 421 J822
Heliothis zea, Insect behavior, Insect traps, Light traps,
Manduca sexta.
Abstract

12378-68
BIOLOGY AND DISTRIBUTION OF TETRASTICHOS INCERTUS, A PARASITE OF THE ALFALFA WEEVIL.
F A Streams R W Fuester
J Econ Entomol 60(6):1574-1579 REF
Dec 1967 421 J822
Alfalfa, Hypera postica, Insect morphology, Parasitism,
Tetrastichus incertus.
Abstract

12379-68
FLIGHT IN DROSOPHILA. II. VARIATIONS IN STROKE PARAMETERS AND WING CONTOUR.
S Vogel
J Exp Biol 46(2):383-391 REF
Apr 1967 442.8 B77
Drosophila, Insect flight.

12380-68
BIOLOGICAL OBSERVATIONS ON COLEOMEGILLA MACULATA AND ITS ROLE AS A PREDATOR OF THE FALL WEBWORM.
L O Warren M Tadic
J Econ Entomol 60(6):1492-1496 REF
Dec 1967 421 J822
Beneficial insects, Coleomegilla maculata, Hyphantria cunea,
Insect biology, Insect eggs, Insect rearing, Larvae,
Predaceous insects.
Abstract

12381-68
STERILE-MALE RELEASES CONTROL POPULATIONS OF DROSOPHILA MELANOGASTER IN CAGE TESTS.
H E Wave T J Henneberry
J Econ Entomol 60(6):1758-1759
Dec 1967 421 J822
Apholate, Chemosterilants, Drosophila melanogaster,
Gamma rays, Insect cages, Insect control, Sterilization.

12382-68
LABORATORY EVALUATION OF TWO ALEOCHARINE PARASITES OF THE PACE FLY.
C W Wingo G D Thomas N M Nelms
J Econ Entomol 60(6):1514-1517
Dec 1967 421 J822
Aleochara bimaculata, Aleochara tristis, Musca autumnalis,
Parasitism, Predaceous insects.
Abstract

12383-68
THE BOMIDITY RESPONSES OF TROGODERMA GRANARIUM EVERTS (COLEOPTERA, DERMESTIDAE).
U Yinon A Shulov
Bull Entomol Res 57(3):451-458 REF
Nov 1967 421 B87
Humidity, Trogoderma granarium.

Genetics

12384-68
WARF ANTI-RESISTANT: DDT SELECTION AND HOUSE FLY CROSS-RESISTANCE.
A J Forgash
J Econ Entomol 60(6):1750-1751
Dec 1967 421 J822
Ddt, Diazinon, Dimetilan, Heredity, Insect genetics,
Insecticide resistant insects, Insecticides, Musca domestica,
Ronnel, Toxicity, Warf antiresistant.

12385-68
GENETIC ANALYSIS OF NON-RECESSIVE FACTORS OF RESISTANCE TO DIAZINON IN THE SKA STRAIN OF THE HOUSEFLY (MUSCA DOMESTICA L.).
R M Sawicki M G Franco R Milani
World Health Organ Bull 35(6):893-903, REF.
1966 449.9 W892B
Diazinon, Insect genetics, Insecticide resistant insects,
Musca domestica.
Abstract

Medical Entomology

12386-68
INHEBITED SEMI-STERILITY IN AEDES AEGYPTI. (ABSTRACT).
M Asman
Calif Mosquito Contr Ass Proc Pap 35:103
1967 42B C763
Aedes aegypti, Gamma rays, Heredity, Sterilization.

12387-68
THE fLIGHT HABITS OF ANOPHELES FREEBORNI AITKEN.
S F Bailey D C Baerg
Calif Mosguito Contr Ass Proc Pap 35:55-69 REF
1967 428 C763
Anopheles freeborni, Insect behavior, Insect flight.

12388-68
ENCEPHALITIS SURVEILLANCE IN HABRIS COUNTY, TEXAS.
R E Bartnett S Riche B P Jones
Calif Mosguito Contr Ass Proc Pap 35:122-124
1967 428 C763
Culex guinguefasciatus, Encephalitis, Insect vectors, Surveys.

12389-68
POTENTIAL FOB NATURALISTIC CONTROL OF MOSQUITOES.
E C Bay
Calif Mosgnito Contr Ass Proc Pap 35:34-37 REF
1967 42B C763
Aedes, Anopheles, Aguatic plants, Fish, Gambnsia,
Natural control (insects).

1239D-6B
EFFECT OF TEMPERATURE AND RELATIVE HUMIDITY ON RATCHING OF
EGGS AND ON LONGEVITY OF ADDLTS OF AEDES VEXANS
(MEIGEN). (ABSTRACT).
H A Brust R A Costello
Calif Mosguito Contr Ass Proc Pap 35:16-77
1967 428 C763
Aedes vexans, Rnmidity, Insect biology, Insect eggs,
Temperature.

12391-68
EXPERIMENTS ON THE BIOLOGICAL CONTROL OF MOSQUITOES WITH THE
FDNGDS BEADVERIA BASSIANA (BALS.) VDILL. (ABSTRACT).
T B Clark W R Kellen T Fukuda J E Lindegren
Calif Mosguito Contr Ass Proc Pap 35:99
1967 428 C763
Aedes aegypti, Aedes nigromacnlis, Aedes sierrensis,
Anopheles albimanus, Beauveria hassiana,
Biological control (insects), Culex pipiens, Culex tarsalis,
Fungus diseases (insects), Insect mortality.

12392-68
SURVEILLANCE OF AEDES AEGYPTI IN THE U.S. AIB FORCE.
T J Cnrtin
Calif Mosguito Contr Ass Proc Pap 35:7D-71
1967 428 C763
Aedes aegypti, Armed forces, Insect control, Surveys.

12393-68
SEASONAL MOSQUITO DISTRIBUTION AND ABDNDANCE IN CENTRAL
LDZON. (ABSTRACT).
F H Dowell J L Libay F E Baisas
Calif Mosguito Contr Ass Proc Pap 35:71
1967 428 C763
Anopheles, Culex, Insect dissemination, Philippines.

12394-6B
MOSQUITO CONTROL IS COMPATIBLE WITH AND BENEFICIAL TO AGRI-
CULTUBE.
A M Grant
Calif Mosgnito Contr Ass Proc Pap 35:11-12
1967 42B C763
Cnlicidae, Insect control.

12395-68
A STUDY ON THE EGG LAYING BEHAVIOR OF AEDES AEGYPTI IN
CENTRAL TEXAS. (ABSTRACT).
B L Hoffmann B F Killingsworth
Calif Mosguito Contr Ass Proc Pap 35:71-72
1967 428 C763
Aedes aegypti, Attractants, Ethyl acetate, Insect behavior,
Insect eggs, Insect traps.

12396-6B
ECOLOGICAL FACTORS INFLUENCING THE EFFICACY OF MOSQUITO CON-
TROL IN IRRIGATED PASTURES IN CALIFOBNIA. (ABSTRACT).
R C Hushands L L Lewallen
Calif Mosgnito Contr Ass Proc Pap 35:109-11D
1967 428 C763
Aedes nigromacnlis, Ecology, Insect control, Insect ecology,
Irrigation, Pastures.

12397-68
ACTIVITY AND SEQUENCE OF MOSQDITO PREDATORS IN WOODLAND
POOLS IN ONTARIO.
H G James
Calif Mosguito Contr Ass Proc Pap 35:95
1967 428 C763
Canada, Dytiscidae, Hydrophilidae, Insect traps, Ponds,
Predaceous insects.

1239B-68
PROBLEMS OF INTERACTION AND DENSITY IN MOSQUITOES IN RELA-
TION TO AEDES AEGYPTI ERADICATION.
G A R McClelland
Calif Mosguito Contr Ass Proc Pap 35:93-95 REF
1967 428 C763
Aedes aegypti, Breeding, Insect control.

12399-68
MOSQDITO CONTROL AGENTS DERIVED FBOM PETROLEM HYDBOCARBONS:
LABORATORY EFFECTIVENESS. (ABSTRACT).
D W Micks J Jennings A Rehmet G Chambers
Calif Mosguito Contr Ass Proc Pap 35:1D8
1967 428 C763
Aedes aegypti, Culex fatigans, Rydrocarbons, Insect control,
Insecticides, Petroleum.
Abstract:
110 hydrocarbons from petroleum were evaluated against the
eggs, larvae and pupae of Culex fatigans and Aedes
aegypti.

124DD-68
CONTROL OF MOSQUITO LARVAE WITH DURSBAN INSECTICIDE APPLIED
AS A THEBMAL FOG. (ABSTRACT).
W O Miller J C McNeill D W Micks P D Ludwig
Calif Mosguito Contr Ass Proc Pap 35:1DB-1D9
1967 428 C763
Aerosols, Chemical control (insects), Culicidae, Dursban,
Insecticide application.
Abstract:
as a larvicide Durshan, at the lowest dosage, was
effective.

12401-68
DENGUE FEVER IN A PUERTO RICAN COMMUNITY.
J M Neff L Morris R Gonzalez-Alcover P R Coleman S B Lyss
Amer J Epidemiol 86(1):162-184, MAP REF
Jul 1967 449.B AM3
Aedes aegypti, Dengue (man), Insect vectors, Pnerto Rico.

12402-68
A REPORT ON THE DISTRIBDTION AND BIOLOGY OF TREE HOLE MOS-
QUITOES IN THE WESTERN UNITED STATES.
L T Nielsen J R Arnell J H Linam
Calif Mosguito Contr Ass Proc Pap 35:72-76 REF
1967 42B C763
Aedes, Anopheles, Forest insects, Insect biology,
Insect dissemination, Populus, Salix.

124D3-6B
CURRENT STATUS OF THIRD UNITED STATES ABMY AEDES
AEGYPTI ERADICATION PROGRAM.
W G Pearson B A Barrison
Calif Mosguito Contr Ass Proc Pap 35:B9-91
1967 428 C763
Aedes aegypti, Armed forces, Breeding, Surveys.

12404-68
WORLD-WIDE MOSQUITO CONTROL, A GBOWING PUBLIC HEALTR NEED.
B F Peters
Calif Mosguito Contr Ass Proc Pap 35:12-15
1967 428 C763
Aedes aegypti, Aedes nigromaculis, Anopheles, Culex pipiens,
Insect control, Malaria.

124D5-6B
COMPARATIVE OVIPOSITION SELECTION PREPERENCE BY AEDES
DORSALIS AND AEDES NIGBOMACDLIS TO TRREE INORGANIC SALTS
IN THE LABORATORY. (ABSTRACT).

J J Petersen D M Rees
Calif Mosquito Contr Ass Proc Pap 35:77-78
1967 428 C763
Aedes dorsalis, Aedes nigromaculis, Calcium chloride, Insect behavior, Ovipositors, Sodium chloride.

12406-68
MOSQUITO CONTROL AND THE CALIFORNIA WATER PLAN.
C V Porter
Calif Mosquito Contr Ass Proc Pap 35:9-11
1967 428 C763
Culicidae, Insect control, Water resources.

12407-68
EFFECTS OF LOW-LEVEL ULTRA-VIOLET IRRADIATION ON REPRODOCTION OF AEDES AEGYPTI (L.) (PRELIMINARY REPORT) (ABSTRACT).
D F Riordan
Calif Mosquito Contr Ass Proc Pap 35:92
1967 428 C763
Aedes aegypti, Insect physiology, Reproduction, Oltraviolet rays.

12408-68
FIELD OEVELOPMENTAL STODIES ON CULEX PIPIENS QUINQUEFASCIATUS REAREO IN NATURAL, DAIRY BARN WASH AND SEWAGE EFFLOENT WATERS. (ABSTRACT).
R D Sjogren K D Biever
Calif Mosquito Contr Ass Proc Pap 35:70
1967 428 C763
Culex pipiens, Oairy barns, Groundwater, Insect morphology, Insect mortality, Insect rearing, Sewage.
Abstract:

12409-68
LABORATORY ANO FIELD STUDIES ON MOSQUITO CONTROL IN WASTE DISPOSAL LAGOONS lN LOUISIANA. (ABSTRACT).
C D Steelman J M Gassie B R Craven
Calif Mosquito Contr Ass Proc Pap 35:108
1967 428 C763
Bacteria, Culex pipiens, Onrsban, Insect control, Insecticide residues, Naled, Toxicity, Waste disposal.
Abstract:
dursban and naled caused the highest levels of mortality to the bacterial population while Abate and fentbion cansed tbe lowest.

12410-68
BENEFICIAL EFFECTS OF RESEARCH TO MOSQUITO CONTROL OPERATIONS.
K H Wagstaff J E Graham
Calif Mosquito Contr Ass Proc Pap 35:98-99
1967 428 C763
Aedes nigromaculis, Insect control, Insecticides.

12411-68
INSECTICIOE TOLERANCE IN COLEX TARSALIS LARVAE IN CALIFORNIA. (ABSTRACT).
O J Womeldorf P A Gillies K E White
Calif Mosquito Contr Ass Proc Pap 35:110
1967 428 C763
Culex tarsalis, Insecticide resistant insects, Malatbion.

20 CROP PROTECTION

Diseases

12412-68
EFFECT OF TEMPERATURE AND LENGTH OF INCUBATION ON SYMPTOM OEVELOPMENT OF LAMBERT MOTTLE OF SWEET CHERRIES.
M M Afanasiev
Plant Dis Rep 51(4):269-270
Apr 1967 1.9 P69P
Lambert mottle (cherries), Mazzard cherries, Temperature, Virus diseases (plants).
Lambert cherry trees infected with Lambert mottle viruses (LM) require exposure to cool temperatures during dormancy period for expression of disease symptoms. infected trees suffer more than healthy trees from sub-zero temperatures. this fact may have an important bearing on the natural elimination of infected trees in our climate. no transmission of LM took place when infected buds were left on inoculated trees for only 12 honrs. some transmission occurred after 24-72 hours and good transmission resulted when buds were left for 96 hours or longer.

12413-68
SOME EFFECTS OF SUPPLYING BENZYLADENINE TO LEAVES AND PLANTS INOCULATED WITH VIRUSES.
H S Aldwinckle I W Selman
Ann Appl Biol 60(1):49-58, REF.
Aug 1967 442.8 AN72
Benzyladenine, Virus diseases (plants).

12414-68
STORAGE OF BOLL ROT ORGANISMS ON INFECTED COTTON BOLLS FOR PROLONGED PERIODS.
H S Bagga
Plant Dis Rep 51(10):855
Oct 1967 1.9 P69P
Boll rot (cotton), Cotton bolls, Culture media, Fungns diseases (plants).

12415-68
RUSTS ON INDIAN FOREST TREES.
B K Bakshi S Singb
Indian Forest Rec N S Forest Pathol 2(8):139-204 REF
1967 464.8 IN22
Coleosporium, Host indexing (plants), India, Puccinia, Rhododendron, Rust (trees), Tree diseases, Oredinales.
Includes bibliograpy p.193-195; an index to rust species and an index to host species.

12416-68
SPREAD OF RICE BLAST IN SMALL FIELDS.
T H Barksdale
Plant Ois Rep 51()0243-247 REF
Apr 1967 1.9 P69P
Air-borne plant diseases, Blast (rice), Piricnlaria oryzae, Rice.
Spread of rice blast from initial foci of 0.0001-, 0.01-, and 0.1-acre sizes was stndied in three small fields of "Gulfrose" rice. disease spread fastest from the largest focus and covered a 1.7-acre field witbin 2 weeks, whereas, from tbe smallest focns, it took 5 weeks for disease to spread and appear everywhere in a 1.1 acre field. the spore load put into tbe air above the diseased crop was measured by nse of 9 rotobar samplers in each field. spore load and disease increased together, and a regression function was computed. from calculations based on this fnnction it is likely tbat from 40 to several hnndred lesions per acre will occur in a rice field before the chances become very good of detecting a Piricnlaria spore on a rotobar sampler.

12417-68
FIG MOSAIC.
E C Blodgett B Gomec
Plant Dis Rep 51(10):893-896 REF
Oct 1967 1.9 P69P
Figs, Mosaic (figs), Virus diseases (plants).

12418-68
SOME OREDOSPORE CHARACTERISTICS OF IMPORTANCE IN EXPERIMENTAL EPIDEMIOLOGY.
K R Bromfield
Plant Dis Rep 51(4):248-252 REF

2D 12419-6B

Apr 1967 1.9 P69P
Epidemiology, Grain, Humidity, Puccinia, Spore germination, Stem rust (grain), Temperature.
Abstract:
the experimental initiation of stem rust epidemics with uredospores of Puccinia graminis var. tritici is a valuable technique for the epidemiologist. successful utilization of the technique requires that sufficient quantities of uredospores of the desired race be available for timely application and that the infectivity of these spores be properly assessed prior to their employment.

12419-6B
EFFECT OF PLANT SIZE ON RESISTANCE TO SNOWMOLD OF WINTER WHEAT.
G W Bruehl
Plant Dis Rep 51(10):B15-B19, REF
Oct 1967 1.9 P69P
Crop varieties, Fungus diseases (plants), Fusarium nivale, Growth factors, Plant disease resistance, Snow mold (wheat), Wheat.
Plant size influenced the resistance of four winter wheats to Typhula idahoensis and Fusarium nivale, the tow most serious snowmold pathogens of wheat in Wasbington CI 9542, CI 14106, Moro, and Nugaines were seeded at weekly intervals in fall so that six different stages of plant development resulted, ranging from those in the 2-leaf stage to those with about eight tillers. the larger and older plants of all varieties survived infection and recovered better than smaller plants in controlled environment trials. resistance to snowmolds in winter wheat appears to be influenced by at least three mechanisms: inherent physiologic resistance to T idahoensis and F nivale, size of the plant prior to infection, and ability to conserve food reserves under long periods in the dark near freezing.

1242D-68
INCIDENCE OF HALO BLIGHT IN IDAHO.
C L Butcher L L Dean L Laferriere
Plant Dis Rep 51(4)D310
Apr 1967 1.9 P69P
Bacterial diseases (plants), Beans, Crop losses, Halo blight (beans).

12421-6B
FIELD EXPERIMENTS ON SUGAR-BEET DOWNY MILDEW (PERONOSPORA FARINOSA).
W J Byford
Ann Appl Biol 60(1):97-107, REF.
Aug 1967 442.B AN72
Chemical control (plant diseases), Downy mildew (sugar beets), Peronospora farinosa, Sugar beets.

12422-68
FUNGICIDAL CONTROL OF FABRAEA LEAFSPOT OF PEAR.
W A Chandler
Plant Dis Rep 51(4)0257-261
Apr 1967 1.9 P69P
Chemical control (plant diseases), Crop varieties, Fabraea maculata, Fungicides, Fungus diseases (plants), Leaf blight (pears), Leaf spot (pears), Pears, Plant disease resistance.
In field spraying trials of fungicides applied to several pear varieties in 1963 and 1964, three or four applications of zineb, dodine, or N-((1,1,2,2-tetrachloroethl)-sulfenyl)-cis-4-cyclohexene-1,2-dicarboximide (Difolatan. controlled Fabraea maculata leafspot effectively on all but the highly susceptible Dabney variety. cycloheximide at 2 ppm was partially effective but was injurious to two varieties. a copper carbamate fungicide was effective on only two varieties. in another test on young "fold Home" pear trees, Difolatan provided excellant control of the leafspot for 3 months following the last application. tetrachloroisophthalonitrile (Daconil 2787), cycloheximide, copper carbamate, dodine, zineb, Bordeaux mixture, and captan provided significant control of leafspot for 3 months on the Old Home variety. trials of schedule variations with Difolatan alone in 1965 and 1966 confirmed that four applications of a fungicide with good residual action provided satisfactory control of F. maculata on both foliage and fruit of most of the varieties tested.

12423-6B
GERMINATION OF SCLEROTIA OF SCLEROTIUM CEPIVORUM BERK UNDER ASEPTIC CONDITIONS.
J R Coley-Smith J E King D J Dickinson r W Holt
Ann Appl Biol 60(1):1D9-115
Aug 1967 442.B AN72
Sclerotium cepivorum, Seed germination.

12424-68
A TRANSMISSIBLE RED-RING DISEASE ON THE FRUIT OF DELICIODS APPLES.
D L Coyier F W Cheney C L Parisb
Plant Dis Rep 51(4)0281-282
Apr 1967 1.9 P69P
Apples, Flat apple (apples), Plant diseases.

12425-6B
FIELD EXPERIMENTS WITH OIL SPRAYS TO PREVENT YELLOW MOSAIC VIRUS IN IRISES.
M Deutsch G Loebenstein
Plant Dis Rep 51(4)0318-319
Apr 1967 1.9 P69P
Iris, Mineral oil, Oils, Phosphamidon, Spraying, Virus diseases (plants).

12426-68
ANTIFUNGAL PHENOLIC ACIDS IN APPLE FRUITS AFTER INFECTION WITH SCLEROTINIA FRUCTIGENA.
C H Pawcett D M Spencer
Ann Appl Biol 60(1):87-96, REF.
Aug 1967 442.8 AN72
Apples, Brown rot (apples), Fungicides, Phenols, Plant disease resistance, Sclerotinia fructigena.

12427-68
FUSARIUM SCAB OF SORGHUM IN NIGERIA.
M C Futrell O J Webster
Plant Dis Rep 51(3):174-177 REF
Mar 1967 1.9 P69P
Fusarium moniliforme, Nigeria, Scab (sorghum), Sorgbum, Thiram.
Ahmadu Bello University, Institute for Agricultural Research, cooperating.
Fusarium moniliforme was found to be associated with seedling blight, stalk rot, head blight and scabbed seed of sorgbum grown in experimental plots during the wet season at Samaru, Nigeria. grain of 2266 lines were examined for the presence of Fusarium spp ninety percent of the Fusarium isolates were F. moniliforme and 1D percent were F. roseum f. cerealis. forty of the lines bad 100 percent Fusarium infection and zero germination, and seed of all of these lines showed typical scabbed symptoms. individual scabbed kernels were found in nearly all lines studied. only 60 of the 2266 lines were free of Fusarium. there was increased incidence of Fusarium on the seed when the heads were covered at flowering with Kraft paper bags. seed grown under irrigation and harvested during the dry season had a much lower incidence of scab than seed grown and harvested in the wet season. seed produced during the dry season and treated with a seed dressing containing thiram had a low incidence of Fusarium when germinated.

1242B-68
SUSCEPTIBILITY OF COMMON AND DURUM SPRING WHEATS TO BARLEY YELLOW DWARF VIRUS.
C C Gill
Can J Plant Sci 47(5):571-576, REF.
Sep 1967 450 C16
Crop losses, Plant disease resistance, Wheat, Yellow dwarf (barley).
Abstract

12429-6B
METHOD OF CONTROLLING SOIL FUNGI WITH BIS(CHLOROMETHYL)DISULFIDE. PATENT 3,36D,43D.
S L Giolito T B Williamson
Us Patent Office Offic Gaz 845(4):1474
26 Dec 1967 156.65 OF2
Bis(chloromethyl)disulfide, Fungicides, Patents, Soil fungi.

1243D-68
FUNGICIDAL CONTROL OF RED THREAD DISEASE OF TURFGRASS IN WESTERN WASHINGTON.
C J Gould V L Miller R L Goss
Plant Dis Rep 51(3):215-219
Mar 1967 1.9 P69P
Chemical control (plant diseases), Festuca, Fungicides, Turf.
Abstract:
several different types of fungicides effectively reduced infection of fescue turf by Corticium fuciforme. cadmium-containing fungicides provided the longest residual control. one application gave significant reduction of the pathogen but two or more applications were necessary for prolonged control.

12431-68
RHIZOPUS ROT OF CHICORY IN PUNJAB, INDIA.
R K Grover S S Sirohi
Plant Dis Rep 51(3):189-191
Mar 1967 1.9 P69P
Chicory, Rhizopus stolonifer, Rot (chicory).
Rhizopus rot of chicory (Cichorium intybus), a hitherto undescribed disease caused by Rhizopus stolonifer (Ehr ex Fr) Lind, was found to be serious under field conditions. the disease-affected fleshy roots rot quickly. variety French is severely affected while variety Jamnagar, which is smooth skinned and hardy, has been found to be free from disease in the field. the latter variety, however, could be infected under laboratory conditions. injury and young inoculum seem to be predisposing factors for the development of the disease.

12432-68
INDEX TO GENERA OF PATHOGENS LISTED IN THE "INDEX OF PLANT DISEASES IN THE UNITED STATES". 2.
R T Hanlin J H Chalkley
Plant Dis Rep 51(4)0323-328
Apr 1967 1.9 P69P
Indexes, Microorganisms, Plant diseases, United States.

12433-68
DIMETHYL SULFOXIDE INHIBITION AND CONTROL OF PLANT VIRUS DISEASES. PATENT 3,334,012.
R J Herschler
Us Patent Office Offic Gaz 841(1):237
01 Aug 1967 156.65 DF2
Chemical control (plant diseases), Dimethyl sulfoxide, Patents, Virucides, Virus diseases (plants).

12434-68
A NEW VIRULENT FORM OF PHAEOISARIOPSIS GRISEOLA CAUSING CIRCULAR LEAF SPOT OF FRENCH BEANS.
D Hocking
Plant Dis Rep 51(4)0276-278
Apr 1967 1.9 P69P
Beans, Leaf spot (beans).

12435-68
DISTRIBUTION AND PREVALENCE OF VIRULENCE FOR VICTORIA OATS IN USTILAGO AVENAE.
C S Holton
Plant Dis Rep 51(10):846-849
Oct 1967 1.9 P69P
Crop varieties, Fungus diseases (plants), Loose smut (oats), Oats, Plant disease resistance, Ustilago avenae.
Washington, Oregon, and Idaho States Departments of Agriculture and Agricultural Experiment Stations, cooperating.
Although national in its distribution, Victoria virulence in Ustilago avenae is most prevalent in those regions and localities populated by oat varieties endowed with Victoria smut resistance.

12436-68
RACE POPULATION DYNAMICS IN USTILAGO AVENAE AS RELATED TO THE PERSISTENCE OF LOOSE SMUT IN OATS.
C S Holton
Plant Dis Rep 51(10):844-846
Oct 1967 1.9 P69P
Crop varieties, Fungus diseases (plants), Loose smut (oats), Oats, Plant disease resistance, Ustilago avenae.
Washington Agricultural Experiment Station, Pullman, cooperating.
The selection pressure inherent in the interplay between an oat variety population with differential smut resistant qualities and a pathogenic race population of Ustilago avenae composed of multigenic virulence components isodynamic in its potential for perpetuating the loose smut problem as a factor to consider in the further development of improved varieties.

12437-68
KEY FOR DETERMINATION OF THE MOST COMMON, SPECIES OF THE GENUS ALTERNARIA (NEES) WILTSR. EMEND. JOLY. (FR)
P Joly
Plant Dis Rep 51(4):296-297
Apr 1967 1.9 P69P
Alternaria, Fungus diseases (plants), Plant taxonomy, Translations.
Translated from Revue de Mycologie 29(5):348-351, 1964, by M. M. Kulik and R. Dabbah, U.S. Department of Agriculture, Agricultural Research Service,

12438-68
CYTOSPORA CANKER ON SWEET CHERRY IN NEW YORK STATE: ASSOCIATION WITH WINTER INJURY AND PATHOGENICITY TO OTHER SPECIES.
P F Kable P Fliegel K G Parker
Plant Dis Rep 51(3):155-157
Mar 1967 1.9 P69P
Cytospora, Mazzard cherries, Peaches, Plant injuries, Prunes, Sour cherries.
Abstract:
Cytospora sp was identified in cankers on sweet cherry and appeared to gain entrance through winter-injured tissue and to cause canker formation beyond the winter-injured tissue. the fungus isolated from such cankers was pathogenic to sweet and sour cherry, peach, and two varieties of prune.

12439-68
THE PHYSIOLOGY OF PENETRATION AND INFECTION BY UREDIOSPORES OF RUST FUNGI.
R Maheshwari
Diss Abstr Sect B 28(3):762B
Sep 1967 Z5D55.U49D53
Fungus diseases (plants), Stem rust (wheat), Wheat.

12440-68
CHEMICAL COMPOSITION OF CELL ENVELOPES FROM VIRULENT AND AVIRULENT STRAINS OF AGROBACTERIUM TUMEFACIENS.
R J Manasse
Diss Abstr Sect B 28(3):1D34B
Sep 1967 Z5D55.U49D53
Agrobacterium tumefaciens, Cell wall.

12441-68
EFFECTS OF PLANTING DEPTH AND ASPRALT MULCH ON RHIZOCTONIA ROOT AND HYPOCOTYL ROT OF SNAPBEAN.
W J Manning D F Crossan D J Morton
Plant Dis Rep 51(3):158-160
Mar 1967 1.9 P69P
Asphalts, Beans, Mulches, Rhizoctonia solani, Root rot (beans), Rot (beans), Seed planting.
The planting depth of snapbean seed and the presence of asphalt mulch affected plant emergence and Rhizoctonia root and hypocotyl rot incidence. plants from seed planted 3 inches deep were shorter and had more root and hypocotyl rot than did plants from seed planted 1 inch deep. more plants emerged in the mulched rows than in the non-mulched rows. plants in the mulched rows were slightly taller and had a higher percentage of root and hypocotyl rot. the lowest incidence of root and hypocotyl rot was obtained by planting seed 1 inch deep without mulching. at this depth, however, seed germination was reduced.

12442-68
SOURCES OF RESISTANCE IN THE GENUS GOSSYPIUM TO SEVERAL SOILBORNE PATHOGENS. (1)
D E Mathre J D Otta
Plant Dis Rep 51(10):864-866
Oct 1967 1.9 P69P
Fungus diseases (plants), Plant disease resistance, Plant temperature, Pythium ultimum, Rhizoctonia solani, Soil-borne plant diseases, Thielaviopsis basicola, Verticillium albo-atrum.
Most of the available species of Gossypium were tested for resistance to Pythium ultimum, Rhizoctonia solani, Thielaviopsis basicola, and the defoliating strain of Verticillium albo-atrum. none of the species exhibited any resistance to P ultimum or R solani. resistance to T basicola was found in certain strains of G arboreum and G herbaceum, but not in any of the other species. this resistance is temperature sensitive. some tolerance to V albo-atrum infection was found in G herbaceum, G herbaceum var africanum, G arborenm, G raimondii, G harknessii, and G barbadense.

12443-68
AN UNUSUAL OCCURRENCE OF EYE ROT OF APPLE IN CALIFORNIA DUE TO NECTRIA GALLIGENA.
W O McCartney
Plant Dis Rep 51(4):278-281 REF
Apr 1967 1.9 P69P
Apples, Fungus diseases (plants), Nectria galligena, Rainfall, Rot (apples).
Abstract:
Eye rot of apple, caused by Nectria galligena Bres. occurred late in the 1965 growing season in Sonoma County, California. this is the first report of the Nectria fruit rot phase in European canker orchards in California.

12444-68
A SENSITIVE STRAWBERRY VIRUS INDICATOR CLONE OF FRAGARIA VESCA FROM THE USSR.
J R McGrew
Plant Dis Rep 51(4):288-290
Apr 1967 1.9 P69P
Crinkle (strawberries), Fragaria vesca, Strawberries, USSR.

12445-68
INTERACTION OF RACE I AND RACE II OF COLLETOTRICHUM ORBICULARE ON WATERMELON. (1)
D M McLean
Plant Dis Rep 51(10):885-887 REF
Oct 1967 1.9 P69P
Anthracnose (watermelons), Colletotrichum orbiculare, Crop varieties, Fungus diseases (plants), Plant disease resistance, Watermelons.
Watermelon varieties resistant to race I of Colletotrichum orbiculare and susceptible to race II were protected from race II to only a slight degree by prior inoculation with race I. stems previously inoculated with race I were easily infected by race II, but leaves infected sub-lethally by race I usually did not succumb to the more virulent race II. it is concluded that if there was any immunizing effect on race II by race I it was extremely localized and not systemic.

12446-68
A NEW RACE OF TILLETIA CARIES.
R J Metzger E L Kendrick
Plant Dis Rep 51(4):287-288
Apr 1967 1.9 P69P
Plant disease resistance, Stinking smut (wheat), Tilletia caries, Wheat.
Oregon Agricultural Experiment Station, Department of Farm Crops cooperating.

12447-68
EFFECT OF CUTTING HEIGHT ON DEVELOPMENT OF ROOT ROT IN CLOVER.
A R Moody R A Kilpatrick A E Rich
Plant Dis Rep 51(10):826-828
Oct 1967 1.9 P69P
Fungus diseases (plants), Fusarium oxysporum, Fusarium solani, Ladino clover, Red clover, Root rot (clover).
U.S. Department of Agriculture, Agricultural Research Service, Crops Research Division, cooperating.
Field and greenhouse experiments determined the effect of height of cutting on development of root rot in taproots of red and Ladino white clover. in a greenhouse ground bed, red clover plants, or white, or both, were clipped to a height of 1, 2, or 4 inches, while unclipped plants were used as a control. plants harvested at 1 inch appeared most severely rooted, while unclipped plants suffered least damage. a field experiment conducted over a 2-year period indicated that height of cutting played a minor role under natural conditions. fusarium oxysporum and F solani were isolated most frequently from diseased taproots. in the greenhouse a severe clipping treatment was useful in indicating the degree of resistance of plants to root rot.

12448-68
INOCULATION OF PEA ENATION MOSAIC VIRUS BY THE GREEN PEACH, POTATO, AND FOXGLOVE APHIDS.
L R Nault
J Econ Entomol 60(6):1586-1587
Dec 1967 421 J822
Acyrthosiphon solani, Enation mosaic (peas), Immunization, Insect vectors, Macrosiphum euphorbiae, Myzus persicae, Peas, Plant disease transmission.
Abstract

12449-68
VIRUSES MECHANICALLY TRANSMITTED FROM PEAR.
S Nemec
Plant Dis Rep 51(4):283-286 REF
Apr 1967 1.9 P69P
Chenopodium, Host indexing (plants), Pears, Plant disease transmission, Virus diseases (plants).
Pear viruses were not transmitted to herbaceous hosts from pear leaves by the usual sap transmission procedures; however, a virus was transmitted to Chenopodium amaranticolor from pear leaves ground in sodium phosphate buffer containing cysteine hydrochloride and sodium diethyldithiocarbamate. the virus was transmitted from four pear species which had been inoculated with a pear source infected with the green ring mosaic virus. similar virus isolates were mechanically transmitted from the indicator pear variety, Bartlett No 13(B-13), which previously had been inculated with seven pear sources all infected with the green ring mosaic virus.

12450-68
HOST RANGE, CHARACTERISTICS, AND PURIFICATION OF PEAM LINE PATTERN VIRUS.
A Q Paulsen
Diss Abstr Sect B 28(3):763B-764B
Sep 1967 Z5055.D49D53
Cuscuta campestris, Cuscuta subinclusa, Host indexing (plants), Line pattern (plants), Myzus persicae, Plant disease transmission.

12451-68
SYNTHESIS OF INDOLEACETIC ACID BY CELL-FREE SYSTEMS FROM PSEUDOMONAS SOLANACEARUM AND NICOTIANA TABACUM.
R H Phelps
Diss Abstr Sect B 28(3):764B
Sep 1967 Z5055.D49D53
Extracellular substances, Indoleacetic acid, Plant regulators, Pseudomonas solanacearum, Tobacco, Tryptophan.

12452-68
TOMATO SPOTTED WILT VIRUS IN LETTUCE CROP IN ARGENTINA.
R E Pontis J M Peldman
Plant Dis Rep 51(3):225
Mar 1967 1.9 P69P
Argentina, Host indexing (plants), Lettuce, Spotted wilt (lettuce).

12453-68
A STRAIN OF PSEUDOMONAS LAPSA ISOLATED FROM CORN SEEDS CAUSING BACTERIAL STALK ROT IN INDIA.
M Rangarajan R P Chakravarti
Plant Dis Rep 51(9):764-766
Sep 1967 1.9 P69P
Bacterial diseases (plants), Corn, Seed-borne plant diseases, Stalk rot (corn).
A bacterium was isolated from the seeds of Ganga 3, out of 17 corn varieties tested. it caused stalk rot in corn when artifically inoculated, and also reduced the germination percentage of corn seeds. the culture was compared with three isolates of Pseudomas lapsa obtained from different sources. the present seed isolate was found to agree in general with the other three isolates but differed in certain cultural and biochemical characters, such as lack of pigment production, inability to produce acid in lactose, maltose and arabinose, and inability to reduce nitrates to nitrites. on the basis of pathogenicity, cultural and biochemical characters, the pathogen is identified as a strain of Pseudomonas lapsa (Ark) Starr and Burkholder.

12454-68
NATURAL SPREAD OF STEM PITTING VIRUS OF APPLE.
A E Rich
Plant Dis Rep 51(4):291-293
Apr 1967 1.9 P69P
Apples, Plant disease transmission, Plant grafting, Stem pitting (apples).
Stem pitting symptoms were observed in 55 trees in a 1957 orchard survey. during the 9-year period, 1957-1966, symptoms developed in 16 of 90 susceptible trees scattered through the orchard. five of the sixteen trees, however, were purposely inoculated in 1957 with buds and scionwood from an infected tree (J-30). thus it is apparent that the virus spread by natural means to only 11 trees (12 percent), while 74 trees (82 percent) remained apparently healthy. the pattern of spread suggests that root grafting could account for most of the natural transmission, and that probably insects were of little or no importance even though no insecticides had been used in the orchard in the past 4 years.

12455-68
INFLUENCE OF DAPPLE APPLE AND STEM PITTING VIRUSES ON TREE GROWTH AND FRUIT YIELDS OVER A FOURTEEN-YEAR PERIOD.
A E Rich
Plant Dis Rep 51(4):293-295
Apr 1967 1.9 P69P
Apples, Crop yields, Dapple (apples), Stem pitting (apples).
Presence of the dapple apple virus in Cortland apple trees had no apparent influence on tree growth or fruit yields, but it did reduce fruit quality and marketability. the stem pitting virus greatly reduced tree growth and yield of cortland, McIntosh and Spy trees. reduction in growth and yield was greater when Florence Crab was used as a body stock than when Virginia Crab was used for this purpose.

12456-68
A TECHNIQUE FOR LABELING CERATOCYSTIS ULMI WITH RADIO-CARBON. (1)
B R Roberts
Plant Dis Rep 51(10):803-805 REF
Oct 1967 1.9 P69P
Carbon isotopes, Ceratocystis ulmi, Conidia, Fungi, Radioactive tracers.
A method is reported for successfully labeling conidia of the Dutch elm disease fungus, Ceratocystis ulmi, with radiocarbon. a conidial suspension, prepared from 7- to 9-day-old cultures of C. ulmi, was added to basal media containing 300 microcuries of B-14-C0-3. washed, resuspended conidia of the fungus yielded significant levels of radioactivity after 72 hours. viability and pathogenicity of 14-C-labeled conidia are not adversely affected by the labeling procedure.

12457-68
PREDOMINATING STRAINS OF BARLEY YELLOW DWARF VIRUS IN NEW YORK: CHANGES DURING TEN YEARS.
W F Rochow
Plant Dis Rep 51(3):195-199
Mar 1967 1.9 P69P
Barley, Macrosiphum avenae, New York,
Plant disease transmission, Rhopalosiphum maidis, Rhopalosiphum padi, Schizaphis graminum,
Virus diseases (plants), Yellow dwarf (barley).
Cornell University Agricultural Experiment Station cooperating.
During 1965 and 1966 in New York, barley yellow dwarf virus was recovered from 103 of 108 field samples of spring oats that had symptoms of infection. virus was recovered from most samples in both years by Rhopalosiphum padi, in contrast to results of earlier tests during a 10-year period when Macrosiphum avenae transmitted virus selectively from most field-collected samples. subsequent comparative transmissions of 98 virus isolates by means of four aphid species permitted identification of the same three major types of virus strains encountered previously. comparison of results over a 10-year period indicated that a change has occurred in the strain of barley yellow dwarf virus predominating near Ithaca, New York.

12458-68
HOST/PARASITE INTERACTION IN BLACKSPOT DISEASE OF ROSES CAUSED BY DIPLOCARPON ROSAE WOLF.
P J W Saunders
Ann Appl Biol 60(1):129-136, REF.
Aug 1967 442.8 AN72
Black spot (rosa), Diplocarpon rosae,
Plant disease resistance, Rosa.

12459-68
PURPLE-TOP OF POTATOES IN GUATEMALA.
E Schieber
Plant Dis Rep 51(4):265-266
Apr 1967 1.9 P69P
Aster yellows (vegetables), Plant disease resistance, Potatoes.

12460-68
COLLAR CANKER OF COFFEE TREES IN GUATEMALA.
E Schieber G A Zentmyer
Plant Dis Rep 51(4):267-269
Apr 1967 1.9 P69P
Coffee.
Collar canker, caused by Helicobasidium compactum Boed., is described for the first time from coffee trees in two locations in Guatemala. the fungus causes some deterioration of the trees and loss of production, and is most severe on coffee grown without shade. control suggestions are made.

12461-68
METHYL ARSINE OXIDE METHOD OF CONTROLLING SOIL-BORNE PYTHIUM FUNGI. PATENT 3,338,780.
A Schwerdle
Us Patent Office Offic Gaz 841(5):1692
29 Aug 1967 156.65 OF2
Chemical control (plant diseases), Fungicides,
Fungus diseases (plants), Methyl arsine oxide, Patents,
Pythium, Soil fungi.

12462-68
RATE OF DECAY IN PINUS STROBUS FOLLOWING ARTIFICIAL INOCULATION WITH FOMES PINI.
S B Silverborg M J Larsen
Plant Dis Rep 51(10):829-831
Oct 1967 1.9 P69P
Fomes pini, Pinus strobus, Statistical analysis,
Tree diseases, Wood decay.
The rate and pattern of decay development in eastern white pine due to Fomes pini was extremely variable. the columns of decay did not taper off to a typical conical form but instead "fingered" out considerable distances beyond the advanced and intermediate zone of decay and in some instances even grew in a spiral pattern. five years after artificial inoculation with F pini, the average yearly vertical extent of decay in eastern white pine was 0.84 feet. the mean upward and downward extent of decay, including advanced intermediate and incipient stages, was 1.9 and 2.3 feet respectively.

12463-68
ERADICATION OF THE SEEDBORNE INOCULUM OF XANTHOMONAS ORYZAE BY HOT WATER TREATMENT OF PADDY SEEDS.
S K Sinha Y L Nene
Plant Dis Rep 51(10):882-883
Oct 1967 1.9 P69P
Bacterial diseases (plants), Hot water treatment (plants),
Oxytetracycline, Rice, Seed treatment,
Seed-borne plant diseases.
Xanthomonas oryzae (Uyeda and Ishiyama) Dows, which causes the bacterial blight of paddy, is seedborne. although the recommendation for eradicating the bacterium from the seed calls for soaking the seed for 12 hours at room temperature in an aqueous suspension of Ceresan Wet plus Agrimycin 100 followed by hot water treatment at 52-54 degrees C for 30 minutes, the evidence obtained indicates that soaking of seed in water at room temperature for 12 hours followed by only hot water treatment at 53 degrees c eradicates the bacterium completely.

12464-68
PROCESS FOR CONTROLLING SPRING DEAD SPOT ON GRASS.
PATENT 3,323,985.
W A Small
US Patent Office Offic Gaz 839(1):265
06 Jun 1967 156.65 OF2
Carbamates, Chemical control (plant diseases),
Dithiocarbamates, Fungicides, Grass sickness, Grasses,
Patents.

12465-68
OCCURRENCE OF TOBACCO DISEASES IN KENTUCKY IN 1966.
J H Smiley R A Flowers
Plant Dis Rep 51(10):866-867
Oct 1967 1.9 P69P
Kentucky, Plant diseases, Tobacco.

12466-68
OUTBREAKS AND NEW RECORDS. INDIA. ERGOT ON BARLEY.
D Suryanarayana
Fao Plant Protect Bull 15(1):19-20
Feb 1967 421 P692
Barley, Claviceps purpurea, Ergot, Fungus diseases (plants).
First record, Keylong, Himachal Pradesh, September, 1966

12467-68
RUST ON ZOYSIA IN ARKANSAS.
M C Tucker J L Dale
Plant Dis Rep 51(10):893
Oct 1967 1.9 P69P
Fungus diseases (plants), Lawns, Puccinia zoysiae,
Rust (grasses), Zoysia japonica.

12468-68
METHOD FOR CONTROL OF POWDERY MILDEW. PATENT 3,323,986.
K Van den Boogaart
Us Patent Office Offic Gaz 839(1):265
06 Jun 1967 156.65 OF2
Chemical control (plant diseases), Dithiocarbamates,
Fungicides, Patents, Powdery mildew (plants).

12469-68
SEED TRANSMISSION OF ABABIS MOSAIC VIRUS IN LETTUCE (LACTUCA SATIVA).
O G A Walkley
Plant Dis Rep 51(10):883-884
Oct 1967 1.9 P69P
Lettuce, Mosaic (lettuce), Plant disease transmission,
Seed-borne plant diseases.

12470-68
EUPHORBIA LAGASCAE, A NEW HOST OF SCLEROTIUM ROLFSII AND A ROOT-KNOT NEMATODE, MELOIDOGYNE HAPLA.
B E Waterworth J J Biggins A M Golden
Plant Dis Rep 51(3):164-166
Mar 1967 1.9 P69P

20 12471-68

Meloidogyne hapla, Necrosis, Oil plants, Plant nematodes, Sclerotium rolfsii.
Euphorbia lagascae Spreng is being studied as a potential new oil crop for the United States at the U. S. Plant Introduction Station, Glenn Dale, Maryland. plants in experimental field plots became heavily infested by the root-knot nematode, Meloidogyne hapla Chitwood, 1949. in plants where Sclerotium rolfsii had also infected the roots, seed yields were substantially reduced. the leaves of plants infected with the fungus became necrotic.

12471-68
TRANSMISSION OF EXOCORTIS VIRUS OF CITRUS TO HERBACEOUS PLANTS.
L G Weathers F C Greer M K Harjung
Plant Dis Rep 51(10)868-871
Oct 1967 1.9 P69P
Citron, Cuscuta, Exocortis (citrus), Petunia, Plant disease transmission, Plant grafting, Solanaceae, Virus diseases (plants).
Exocortis virus was transmitted from citron to citron and petunia by dodder, by grafting, and by various mechanical methods. the virus was transmitted from petunia to petunia and back to citron by the same methods. from infected petunia exocortis virus was graft transmitted to 12 species of plants in the family Solanaceae. petunia tissue homogenized in various buffers and additives provided infectious inoculum for mechanical transmission. in mechanical inoculations from petunia to petunia, transmissions were increased when the inoculum tissue was extracted in 0.1M Na-2-SO-3 at pH 8.0.

12472-68
METHOD OF DISINFECTING SEEDS. PATENT 3,366,538.
H Werres D Baumert R Rusch
Us Patent Office Offic Gaz 846(5):1571
30 Jan 1968 156.65 OF2
Chlorobenzyl isothiocyanate, para-, Fungicides, Patents, Seed treatment, Seeds.

12473-68
SCLEROTIUM ROLFSII AND ITS CONTROL ON TOMATO AND PEANUT.
P A Young
Plant Dis Rep 51(4):314-316 REF
Apr 1967 1.9 P69P
Calcium nitrate, Crop rotation, Fertilizers, Peanuts, Sclerotium rolfsii, Southern blight (tomatoes), Stem rot (peanuts), Tomatoes.
Sclerotium rolfsii Sacc causes rots of seedlings, stems, and fruits of at least 145 genera of plants, especially cultivated plants. it usually killed 50 to 100 percent of the tomato (Lycopersicon esculentum) plants in some naturally-infested fields at the Tomato Laboratory at Jacksonville, Texas. the disease was controlled by crop rotation or by soil treatment with several fumigant fungicides. southern blight was the main cause of doubtfully profitable production of peanuts (Arachis hypogaea) near Pearsall, Texas for many years. it is controlled commercially by deep plowing, by pentachloronitrobenzene treatment of soil, by non-dirting cultivation, and by dusting to control leaf diseases. these combined methods add about 50 to 100 bushels of nuts per acre to peanut production. calcium nitrate fertilization delayed killing of tomato plants by S. rolfsii too short a time for profitable commercial use. no Lycopersicon with strong resistance to S. rolfsii was found. s. rolfsii rotted nut grass tubers and grew on clay soil as a culture medium in a field.

12474-68
RECENT ADVANCES IN THE CONTROL OF SOIL FUNGI.
G A Zentmyer
Fao Plant Protect Bull 15(1):1-5
Feb 1967 421 F692
Biological control (weeds), Fumigants, Fungicides, Plant disease control, Plant disease resistance, Soil-borne plant diseases.

12475-68
OCCURRENCE OF A MOSAIC DISEASE OF SWEET SORGHUM IN FOUR SOUTHERN STATES.
N Zummo O H Coleman K Freeman
Plant Dis Rep 51(3):200-202
Mar 1967 1.9 P69P
Corn, Dactylonotus ambrosiae, Mosaic (corn), Mosaic (sugarcane), Plant disease transmission, Rhopalosiphum maidis, Sorgho, Sugarcane, Sweetcorn, Virus diseases (plants).
Mississippi Agricultural Experiment Station, cooperating.

Arthropods

12476-68
LOW-VOLUME AERIAL SPRAYING OF SEVERAL INSECTICIDES FOR COTTON-INSECT CONTROL.
H M Adair R T Kincade M L Laster J R Brazzel
J Econ Entomol 60 (4):1121-1127
15 Aug 1967 421 J822
Aerial spraying, Anthonomus grandis, Cotton, Ddt, Heliothis zea, Malathion, Methyl parathion, Strobane, Tde, Toxaphene.
Toxaphene or strohane mixed with a DDT and methyl parathion combination, and TOE with malathion
Abstract

12477-68
INSECTICIDAL CONTROL OF REGULATED POPULATIONS OF BLACK CUTWORM ON CORN.
J W Apple
J Econ Entomol 60(6):1612-1615
Dec 1967 421 J822
Agrotis ipsilon, Carbamates, Chemical control (insects), Corn, Phosphates.
Abstract

12478-68
CONTROL OF THE IRIS BORER WITH SYSTEMIC INSECTICIDES.
J E Appleby
J Econ Entomol 60(6):1610-1612
Dec 1967 421 J822
Chemical control (insects), Dimethoate, Disulfoton, Insecticide application, Iris, Macronoctua onusta, Phorate, Systemic insecticides.
Abstract

12479-68
LEAF DISK METHOD OF TESTING ALFALFA PLANTS FOR RESISTANCE TO FEEDING BY ADULT ALFALFA WEEVILS.
D K Barnes R H Ratcliffe
J Econ Entomol 60(6):1561-1565
Dec 1967 421 J822
Alfalfa, Feeding, Hypera postica, Leaves, Plant pest resistance.
Abstract

12480-68
SOME ENVIRONMENTAL FACTORS AFFECTING FEEDING, OVIPOSITION, AND SURVIVAL OF THE SOUTHERN CORN ROOTWORM.
W V Campbell D A Emery
J Econ Entomol 60(6):1675-1678 REF
Dec 1967 421 J822
Diabrotica undecimpunctata, Environment, Insect mortality, Insect nutrition, Insect rearing, Ovipositors, Peanuts.
Abstract

12481-68
IMPROVED LABORATORY METHODS FOR REARING THE CITRUS RED MITE.
O L Chambers C Moffitt
J Econ Entomol 60(6):1748-1749
Dec 1967 421 J822
Chemical control (plant diseases), Citrus, Equipment, Insect rearing, Panonychus citri, Sodium hypochlorite, Virus diseases (plants).

12482-68
DISCOVERY OF THE PEA APHID PARASITE APHIDIUS SMITHI, IN CENTRAL MEXICO.
O W Clancy
J Econ Entomol 60(6):1743
Dec 1967 421 J822
Acyrthosiphon pisum, Alfalfa, Aphidius smithi, Parasitism.
Abstract

12483-68
FIELD EXPERIMENTS WITH STERILE MALES FOR ERADICATION OF THE BOLL WEEVIL.
T B Davich M E Merkl E B Mitchell D D Hardee R T Gast
G H McKibben P A Huddleston
J Econ Entomol 60(6):1533-1538,MAP REF
Dec 1967 421 J822
Anthonomus grandis, Apholate, Chemosterilants, Cotton,

Insecticide application, Sterilization.
Abstract

12484-68
BIOLOGY OF THE CABBAGE LOOPER ON TOBACCO IN NORTH CAROLINA.
K D Elsey R L Rabb
J Econ Entomol 60(6):1636-1639
Dec 1967 421 JB22
Flue-cured tobacco, Insect biology, Pseudoplusia includens, Tobacco, Trichoplusia ni.
Abstract

12485-68
GAMMA IRRADIATION OF PUPAE OF THE TOBACCO BUDWORM.
H M Flint E L Kressin
J Econ Entomol 60(6):1655-1659
Dec 1967 421 JB22
Cobalt, Gamma rays, Heliothis virescens, Sterilization.
Abstract

12486-68
PARASITISM OF THE ALFALFA WEEVIL IN THE WESTERN PLAINS STATES FROM 1963 TO 1966.
A F Hagen G R Manglitz
J Econ Entomol 60(6):1663-1666,MAP
Dec 1967 421 JB22
Bathyplectes curculionis, Hypera postica, Parasitism, Parasitism.
Abstract

12487-68
SPATIAL ARRANGEMENT OF THE EGGS OF HYLEMYA BRASSICAE (BOUCHE), AND A SEQUENTIAL SAMPLING PLAN FOR USE IN CONTROL OF THE SPECIES.
O G Harcourt
Can J Plant Sci 47(5):461-467, REF.
Sep 1967 450 C16
Hylemya brassicae, Insect eggs, Sampling (statistics).
Abstract

12488-68
CHEMOSTERILIZATION OF MALE EUROPEAN CORN BORERS BY FEEDING OF TEPA AND APHOLATE TO LARVAE.
J A Harding
J Econ Entomol 60(6):1631-1632
Dec 1967 421 JB22
Apholate, Chemosterilants, Ostrinia nubilalis, Sterilization, Tepa.
Abstract

12489-68
1967 INSECTICIDE RECOMMENDATIONS; APPLE INSECT CONTROL (COMMERCIAL).
C H Hill
Va Polytech Inst Ext Circ 1004,8 P
Dec 1966 275.29 VB1C
Aphis pomi, Apples, Chemical control (insects), Extension work, Insecticides.

12490-68
MINIMUM NUMBER OF INSECTICIDE APPLICATIONS FOR THE CONTROL OF THE EUROPEAN CORN BORER ON SWEET CORN IN QUEBEC.
M Hudon
J Econ Entomol 61(1):75-78 REF
Feb 1968 421 JB22
Carbaryl, Chemical control (insects), Odt, Insecticide application, Ostrinia nubilalis, Sweetcorn.
Abstract

12491-68
THREE CICADELLID-SPECIES INJURIOUS TO AGRICULTURE (HEMIPTERA).
T Ishihara
Shikoku Entomol Soc Trans 9(3):63-67
May 1967 420 SH6
Cicadellidae, Eggplant, Sugarcane.

12492-68
INSECT SEX ATTRACTANTS. VIII. STRUCTURE-ACTIVITY RELATIONSHIPS IN SEX ATTRACTANT FOR MALE CABBAGE LOOPERS.
M Jacobson H H Toba J DeBolt A N Kishaba
J Econ Entomol 61(1):84-85
Feb 1968 421 JB22
Acetates, Alcohols, Sex attractants, Stereochemistry, Trichoplusia ni.
Abstract

12493-68
SYSTEMIC INSECTICIDES AS LYGUS BUG CONTROLS COMPATIBLE WITH BEE POLLINATION ON ALFALFA.
C Johansen J Eves
J Econ Entomol 60(6):1690-1696
Dec 1967 421 JB22
Alfalfa, Bee pollinators, Chemical control (insects), Dimethoate, Insecticide application, Irrigation, Lygus elisus, Lygus hesperus, Megachile rotundata, Sprinkler irrigation, Systemic insecticides, Toxicity.
Abstract

12494-68
STUDIES ON ANTIFEEDING PROPERTIES OF TRIPHENYLTIN ACETATE AGAINST THE TOBACCO CATERPILLAR, PRODENIA LITURA F.
B G Joshi G Ramaprasad C L Narayana
Indian J Entomol 29(1):18-20
Mar 1967 420 IN23
Feeding, Insect behavior, Insect repellents, Prodenia litura, Tobacco, Triphenyltin acetate.
Abstract.

12495-68
DISTRIBUTION OF PHONY PEACH VECTORS IN SOUTH CAROLINA.
A Kalkandelen R C Fox
J Econ Entomol 61(1):65-67,MAP
Feb 1968 421 JB22
Cuerna costalis, Homalodisca coagulata, Homalodisca insolita, Insect vectors, Oncometopia orbana, Peaches, Phony disease (peaches), Plant disease transmission, Zoogeography.
Abstract

12496-68
EFFECT OF HOST PLANTS ON THE SURVIVAL, DEVELOPMENT AND BEHAVIOUR OF CHILO ZONELLUS (SWINHOE) UNDER LABORATORY CONDITIONS.
M B Kalode N C Plant
Indian J Entomol 29(1):48-57 REF
Mar 1967 420 IN23
Chilo zonellus, Corn, Euchlaena, Host specificity, Insect behavior, Insect physiology, Mortality, Pearlmillet, Sorghum.
Abstract

12497-68
BEHAVIOR OF THE SPOTTED ALFALFA APHID,THERIOAPHIS MACULATA (BUCKTON), ON RESISTANT AND SUSCEPTIBLE ALFALFAS.
S D Kindler
Diss Abstr Sect B 28(3):1274B-1275B
Sep 1967 Z5055.U49D53
Alfalfa, Chlorophylls, Plant pest resistance, Therioaphis maculata.

12498-68
2,4-DIHYDROXY-7-METHOXY-1,4-BENZOXAZIN-3-ONE (DIMBOA), AN ACTIVE AGENT IN THE RESISTANCE OF MAIZE TO THE EUROPEAN CORN BORER.
J A Klun C L Tipton T A Brindley
J Econ Entomol 60(6):1529-1533 REF
Dec 1967 421 JB22
Corn, Dihydroxy-7-methoxy-1,4-benzoxazin-3-one, 2,4-, Ostrinia nubilalis, Plant pest resistance, Seedlings.
Abstract

12499-68
BARK VS FOLIAGE APPLICATIONS OF INSECTICIDES FOR CONTROL OF PSYLLA UNCATOIDES ON ACACIA.
C S Koehler S S Rosenthal
J Econ Entomol 60(6):1554-1558
Dec 1967 421 JB22
Acacia, Bark, Chemical control (insects), Dimethoate, Insecticide application, Psylla uncatoides.
Abstract

12500-68
INSECT PREFERENCE FOR PEANUT VARIETIES.
O B Leuck R O Hammons L W Morgan J E Harvey
J Econ Entomol 60(6):1546-1549 REF
Dec 1967 421 JB22
Anticarsia gemmatalis, Heliothis zea, Host specificity, Peanuts, Spodoptera frugiperda, Stegasta bosqueella.
Abstract

12501-68
LESSER COBWSTALK BORER DAMAGE TO PEANUT PLANTS.
O B Leuck
J Econ Entomol 60(6):1549-1551
Dec 1967 421 JB22
Chemical control (insects), Elasmopalpus lignosellus,

2D 125D2-68

Insecticides, Peanuts.
Abstract

125D2-68
LOW-VOLUME DUSTS FOR CONTROL OF THE COTTON BOLLWORM.
C Lincoln G Dean
J Econ Entomol 60(6):1744-1745
Dec 1967 421 J822
Carbaryl, Cotton, Dusting, Heliothis zea, Methyl parathion, Shell SD-8447, Spraying, Tde.
Abstract:
low-volume dusts gave an increase in percent control in all cases except one. dupont 1179 (methyl n-((methylcarbamoyl)oxy)thioacetimidate) spray gave better control than the dust. the residual effectiveness of the low-volume dusts was equal to that of the sprays.

12503-68
COMPARISON OF THREE RATES OF APPLICATION OF DLTRA-LOW-VOLUME AZINPHOSMETHYL IN A REPRODUCTION-DIAPAUSE CONTROL PROGRAM AGAINST THE BOLL WEEVIL.
E P Lloyd F C Tingle M E Merkl E C Burt D B Smith T B Davich
J Econ Entomol 60(6):1696-1699
Dec 1967 421 J822
Anthonomus grandis, Azinphosmethyl,
Chemical control (insects).
Abstract

12504-68
INHERITANCE OF RESISTANCE IN SWEETCLOVER TO THE SWEETCLOVER APHID.
G B Manglitz H J Gorz
J Econ Entomol 61(1):90-93
Feb 1968 421 J822
Plant genetics, Plant pest resistance, Sweetclover, Therioaphis riehmi.
Abstract

12505-68
SUPPRESSION OF DROSOPHILA MELANOGASTER IN TOMATO FIELD PLOTS BY THE RELEASE OF FLIES STERILIZED BY APHOLATE.
B C Mason T J Henneberry F F Smith W L McGovern
J Econ Entomol 61(1):166-170
Feb 1968 421 J822
Apholate, Chemosterilants, Drosophila melanogaster, Sterilization, Tomatoes.
Abstract

12506-68
APPLE MAGGOT ADULT DISPERSION IN A NEW BRUNSWICK APPLE ORCHARD.
C W Maxwell
J Econ Entomol 61(1):103-106
Feb 1968 421 J822
Apples, Fluorescent dyes, Insect dissemination, Insect traps, Rhagoletis pomonella.
Abstract

12507-68
PSEUDOPLUSIA INCLUDENS: A PEST OF FLORICULTURAL CROPS IN SOUTHERN CALIFORNIA.
F S Morishita R N Jefferson S T Besemer W A Humphrey
J Econ Entomol 60(6):1758
Dec 1967 421 J822
Greenhouses, Ornamental plants, Pseudoplusia includens.

12508-68
LABORATORY TESTS WITH PROMISING INSECTICIDES FOR CONTROL OF ADULT AND LARVAL STABLE FLIES.
G A Mount J R Gahan C S Lofgren
J Econ Entomol 60(6):1600-1602
Dec 1967 421 J822
Chemical control (insects), Insecticides, Larvae, Stomoxys calcitrans, Toxicity.
Abstract

12509-68
LEUCINODES ORBONALIS GUEN. (LEPIDOPTERAI PYRALIDAE) AS A SERIOUS PEST OF POTATO PLANTS IN MYSORE STATE.
K R Nair
Indian J Entomol 29(1):96-97
Mar 1967 420 IN23
Leucinodes orbonalis, Potatoes.

12510-68
REACTION OF CORN TO THE FEEDING OF THE WHEAT CURL MITE.
L R Nault M L Briones
J Econ Entomol 61(1):31-32
Feb 1968 421 J822
Aceria tulipae, Corn, Crop varieties, Host specificity.
Abstract

12511-68
THE RELATIONSHIP OF ARTHROPOD PREDATORS TO CROP DAMAGE INFLICTED BY THE SUGARCANE BORER.
A A Negm S D Hensley
J Econ Entomol 60(6):1503-1506
Dec 1967 421 JR22
Azinphosmethyl, Diatraea saccharalis, Endrin, Heptachlor, Plant injuries, Predaceous insects, Sugarcane.
Abstract

12512-68
SOURCES OF ALFALFA SEED CHALCID RESISTANCE IN ALFALFA.
M W Nielson M R Schonhorst
J Econ Entomol 60(6):1506-1511
Dec 1967 421 JR22
Alfalfa, Biological control (insects), Bruchophagus roddi, Plant pest resistance.
Abstract

12513-68
AN EXPERIMENTAL SPRAY PROGRAM FOR INTEGRATED CONTROL OF INSECTS AFFECTING SOUR CHERRY.
E R Oatman
J Econ Entomol 61(1):62-64 REF
Feb 1968 421 JR22
Bacillus thuringiensis, Caterpillars, Conotrachelus nenuphar, Dodine, Endrin, Integrated control (insects), Pesticide application, Soil sanitation, Sour cherries, Spraying, Thuricide.
B. thuringiensis plus dodine as petal-fall and cover sprays, with endrin sod treatment.
Abstract

12514-68
PRELIMINARY EVALUATION OF SOIL INSECTICIDE FOR SUGAR-BEET ROOT MAGGOT CONTROL.
W E Peay C E Stanger A A Swenson
J Econ Entomol 61(1):19-21
Feb 1968 421 J822
Chemical control (insects), Insecticides, Soil sanitation, Sugar beets, Tetanops myopaeformis.
Abstract

12515-68
STRATEGY OF INTEGRATED PEST CONTROL.
S Pradhan
Indian J Entomol 29(1):105-122
Mar 1967 420 IN23
Insect pests, Insecticides, Integrated control (insects), Plant protection, Rice.

12516-68
ASPECTS OF PEA APHID NUTRITION.
A Retnakaran
Diss Abstr Sect B 28(3):1283B-1284B
Sep 1967 Z5055.D49D53
Acyrthosiphon pisum, Broadbeans, Insect nutrition.

12517-68
HYDROCYANIC ACID AND OTHER FUMIGANTS FOR CONTROL OF LARVAE OF PLEMELIELLA ABIETINA AND MEGASTIGMUS SP. IN IMPORTED SPRUCE SEED.
H H Richardson H Roth
J Econ Entomol 61(1):214-216
Feb 1968 421 J822
Forest insects, Fumigants, Hydrocyanic acid, Larvicides, Megastigmus, Picea, Plemeliella abietina, Seed treatment.
Abstract

12518-68
1967 INSECTICIDE RECOMMENDATIONS; FORAGE CROPS INSECTS.
J O Rowell
Va Polytech Inst Ext Circ 1016,4 P
Dec 1966 275.29 VB1C
Alfalfa, Chemical control (insects), Extension work, Forage plants, Insecticides, Insects, Malathion, Red clover.

12519-68
1967 INSECTICIDE RECOMMENDATIONS; INSECTS OF CABBAGE, BROCCOLI, CAULIFLOWER, AND BRUSSELS SPROUTS.
J O Rowell
Va Polytech Inst Ext Circ 1020,4 P
Dec 1966 275.29 VB1C
Broccoli, Brussels sprouts, Cabbage, Cauliflower, Chemical control (insects), Extension work, Insecticides.

12520-68
1967 INSECTICIDE 8ECOMMENDATIONS; INSECTS OF GROWING CHRISTMAS TREES.
J O Bcwell
Va Polytecb Inst Ext Circ 1032,4 P
Dec 1966 275.29 V81C
Cbemical ccntrol (insects), Christmas trees, Extension work, Forest insects, Insecticides, Trees.

12521-68
1967 INSECTICIDE 8ECOMMENDATIONS; PESTS OF G8EENHOUSE TCMATOES.
J O Rowell
Va Polytech Inst Ext Circ 1031,4 P
Dec 1966 275.29 V81C
Cbemical ccntrol (insects), Extension work, Greenbouse cnlture, Insecticides, Tomatoes.

12522-68
1967 INSECTICIDE 8ECCMMENDATIONS; INSECTS OF TOMATOES.
J O Rowell
Va Polytech Inst Ext Circ 1025,4 P
Dec 1967 275.29 V81C
Chemical control (insects), Extension work, Insecticides, Tcmatoes.

12523-68
1967 INSECTICIDE BECCMMENDATIONS; INSECTS OF I8ISH PCTATCES.
J O Rowell
Va Polytecb Inst Ext Circ 1D24,4 P
Dec 1966 275.29 V81C
Cbemical control (insects), Extension work, Insecticides, Potatoes.

12524-68
8ELATIONSHIP 8ETWEEN TBE TARNISBED PLANT BUG AND DEFORMED COTTON 8LANTS.
A L Scales R E Furr
J Econ Entomol 61(1):114-118
Feb 1968 421 J822
Cotton, Crop yields, Lygus lineclaris, Plant abnormalities.
Abstract

12525-68
CCMPARISCNS OF SOIL AND FOLIAR APPLICATIONS OF ACA8ICIDES FOR CCNTROL OF T8E TWO-SPOTTED SPIDER MITE ON STRAW8ERRIES IN SOUTBERN CALIFORNIA.
H H Sborey R L 8ale V Voth
J Econ Entcmol 60(6):1722-1724
Dec 1967 421 J822
Acaricides, Cbemical control (insects), Foliar application, Scils, Strawberries, Tetranycbus urticae.
Abstract

12526-68
SUCCESSIVE GE8MINATION OF 8OLLWO8AS ON COTTON IN FIELD CAGES.
E A Stadelbacher
J Econ Entcmol 61(1):118-120
Feb 1968 421 J822
Cotton, Heliothis zea, Insect cages, Insect pbysiology, Reproduction.
Abstract

12527-68
SEASONAL TRENDS IN CATCHES OF MOTHS OF T8E TO8ACCO 8ORNWORM, TCMATC 8ORNWORM, AND CO8N EA8WO8M IN T8APS EQUIPPED WITH 8IACKLIGHT LAMPS IN NORT8 CA8OLINA.
P A Stewart C R Gentry C M Knott J J Lam
J Econ Entomol 61(1):43-46
Feb 1968 421 J822
Heliotbis zea, Insect populations, Ligbt traps, Manduca quinquemaculata, Manduca sexta, Tobacco.
Abstract

12528-68
EFFECTS OF O8GANOMETALLIC COMPOUNDS ON LEPIDOPTE8A.
D O Wolfenbarger A A Guerra W L Lowry
J Econ Entomol 61(1):78-81
Feb 1968 421 J822
Caterpillars, Germane compounds, Heliotbis virescens, Heliotbis zea, Lead compounds, Organic compounds, Trichoplusia ni.
Abstract

12529-68
INSECT ABUNDANCES ON TCMATOES AND SQDAS8 MDLCHED WITH ALUMINUM AND PLASTIC S8EETINGS.
D O Wolfenbarger W D Moore
J Econ Entomol 61(1):34-36
Feb 1968 421 J822
Aluminum foil, Aphididae, Apis mellifera, Diaphania nitidalis, Insect populations, Liriomyza, Mulches, Myzus persicae, Plastics, Squash, Tomatoes.
Abstract

12530-68
CONTROL OF THE CA8BAGE LOOPER AND CO8N EARWORM WITH NUCLEAR POLYHEDROSIS VIRDSES.
K L Woodall L P Ditman
J Econ Entomol 60(6):1558-1561 REF
Dec 1967 421 J822
Biological control (insects), Broccoli, Heliothis zea, Polyhedroses, Trichoplusia ni.
Abstract

Nematodes

12531-68
METHOD OF KILLING NEMATODES WITH BIS(1,2-DICBLOROETHYL) SULFONE, PATENT 3,362,87D.
P C Aicheneg9
Us Patent Office Offic Gaz 846(2):568
09 Jan 1968 156.65 OP2
Bis(1,2-dichloroetbyl) snlfone, Chemical control (nematodes), Nematocides, Patents, Plant nematodes.

12532-68
THE INFLUENCE OF CERTAIN ENVIRONMENTAL FACTORS ON THE RESPIRATION OF SOME PLANT-PARASITIC NEMATODES.
B D 8batt
Diss Abstr Sect 8 28(3):1128B
Sep 1967 Z5055.D49D53
Environment, Plant nematodes, Respiration.

12533-68
SOYBEAN CYST NEMATODE FOUND IN LOUISIANA.
W 8ircbfield R Motsinger
Plant Dis Rep 51(1D):823
Oct 1967 1.9 P69P
Heterodera glycines, Louisiana, Plant nematodes, Soybeans.
Louisiana State University, Cooperative Extension service, cooperating.

12534-68
SUITA8ILITY OF KOBE LESPEDEZA FO8 REPRODUCTION OF ISOLATES OF TBE SOYBEAN CYST NEMATODE FBOM NINE LOCATIONS. (1)
J M Epps A M Golden
Plant Dis 8ep 51(9):775-776
Sep 1967 1.9 P69P
Heterodera glycines, Bost specificity, Lespedeza striata, Plant nematodes.
Tennessee Agricultural Experiment Station, Jackson, cooperating.
Isolates of tbe soybean cyst nematode, Beterodera glycines Icbinobe, 1952, reprodnced on Lespedeza striata 'Kobe', in greenbouse experiments. some variations occnrred in the rates of reprodnction, bnt all isolates were higbly patbogenic and could not be differentiated on tbis bost. the results of these experiments sbow that Kobe lespedeza can serve as an important bost for all of the nine isolates of tbe soybean cyst nematodes tested from six States.

12535-68
FACTORS INFLDENCING TBE POPULATION FLDCTUATION OF PRATYLENCHDS PENETRANS IN SOILS OF HIGH ORGANIC CONTENT. I. EFFECT OF SOIL FUMIGANTS AND DIFFERENT CROP PLANTS.
J M Ferris
J Econ Entomol 6D(6):17D8-1714 REF
Dec 1967 421 J822
Mentba, Onions, Plant nematodes, Population statistics, Potatoes, Pratylenchus penetrans, Soil fnmigation.
Abstract

12536-68
NATURE OF THE NEMATODE PROBLEM IN LOUISIANA RICE FIELDS.
J P Hollis
Plant Dis Rep 51(3):167-169
Mar 1967 1.9 P69P
Plant nematodes, Rice.
Abstract:

20 12537-68

examinations of rice root systems, soil profiles, and nematode populations from oxidized soil layers below the biochemically-reduced zones in Louisiana rice fields have provided conclusive evidence for the first time that plant-parasitic nematodes constitute an important economic problem in rice culture.

12537-68
REDUCTION OF ROOT KNOT OF TOMATOES WITH CROP RESIDUE AMENDMENTS IN FIELD EXPERIMENTS.
L F Johnson A Y Chambers H E Reed
Plant Dis Rep 51(3):219-222 REF
Mar 1967 1.9 P69P
Dibromo-3-chloropropane, 1,2-, Dichloropropene, 1,3-, Ethylene dibromide, Hay, Meloidogyne incognita, Nematocides, Oat straw, Plant nematodes, Plant residues, Tomatoes.
Mature, dried crop residues, chopped to about 1/8-inch particle size, were incorporated into soil in field plots infested with Meloidogyne incognita. root-knot severity was determined on tomatoes planted in the amended plots. alfalfa hay, oat straw, lespedeza hay, and flax hay amendments each reduced root-knot infection. more reduction was obtained when residues were added at the rate of 10 than at 5 tons per acre, and when residues were added 8 months prior to assaying than for shorter incubation periods. in general, nematocides were superior to crop residues.

12538-68
THE POPULATION GENETICS OF THE POTATO CYST-NEMATODE, HETERODA ROSTOCHIENSIS: MATHEMATICAL MODELS TO SIMULATE THE EFFECTS OF GROWING RESISTANT POTATOES BRED FROM SOLANUM TUBEROSUM SSP ANDIGENA.
F G W Jones D M Parrott G J S Ross
Ann Appl Biol 60(1):151-171, REF.
Aug 1967 442.8 AN72
Heterodera rostochiensis, Mathematical analysis, Plant nematode resistance, Potatoes.

12539-68
METHOD FOR CONTROLLING MICROORGANISMS AND NEMATODES.
PATENT 3,361,621.
G E Lukes
Us Patent Office Offic Gaz 846(1):231
02 Jan 1968 156.65 OF2
Nematocides, Patents, Plant nematodes, Thiocyanates.

12540-68
PRATYLENCHUS PENETRANS, ITS INTERACTION WITH VERTICILLIUM ALBO-ATRUM IN THE VERTICILLIUM WILT OF POTATOES AND ITS ATTRACTION BY VARIOUS CHEMICALS.
F Horsink
Diss Abstr Sect B 28(3):762B-763B
Sep 1967 Z5055.U49D53
Plant nematodes, Potatoes, Pratylenchus penetrans, Verticillium albo-atrum.

12541-68
OBSERVATIONS ON THE EFFECT OF SAWDUST ON INCIDENCE OF ROOT KNOT AND ON YIELD OF OKRA AND TOMATOES IN NEMATODE-INFESTED SOIL. (1)
B S Singh B Singh S P S Beniwal
Plant Dis Rep 51(10):861-863
Oct 1967 1.9 P69P
Crop yields, Meloidogyne javanica, Okra, Plant nematodes, Root knot (okra), Root knot (tomatoes), Sawdust, Tomatoes.
Field experiments on silt loam soil infested with Meloidogyne javanica have shown that intensity of galls formed on okra and tomato roots is appreciably reduced if sawdust at the rate of 2000 lb/acre is mixed with the soil 3 weeks before planting. the nitrogen deficiency in fresh sawdust-amended soils is effectively counteracted by the application of balanced NPK fertilizers at the time of planting. sawdust and fertilizer amendments to infested soil reduced the number of galls per infected plant to one-half or one-fourth of that found on plants growing in untreated plots and increased okra yield by about 70 percent and tomato yield by about 125 percent over the check.

12542-68
CITRUS NEMATODE FOUND WIDESPREAD IN FLORIDA.
A C Tarjan
Plant Dis Rep 51(4):317
Apr 1967 1.9 P69P
Citrus, Plant nematodes, Tylenchulus semipenetrans.

12543-68
EFFECTS OF HOST SPECIES ON POPULATION CHANGES OF PRATYLENCHUS PENETRANS (COBB, 1917) FILIPJEV AND SCHUURMANS STEKHOVEN, 1941.
K Y Wong
Diss Abstr Sect B 28(3):1294B
Sep 1967 Z5055.U49D53
Mentha piperita, Onions, Plant nematodes, Potatoes, Pratylenchus penetrans.

Weeds

12544-68
DARKNESS AND THE ACTIVITY OF DIQUAT AND PARAQUAT ON TOMATO, BROAD BEAN AND SUGAR BEET.
R C Brian
Ann Appl Biol 60(1):77-85, REF.
Aug 1967 442.8 AN72
Broadbeans, Diquat, Herbicides, Light, Paraquat, Sugar beets, Tomatoes.

12545-68
METHOD OF SELECTIVELY DESTROYING WEEDS. PATENT 3,332,768.
H E Freund R Rusch
Us Patent Office Offic Gaz 840(4):1264
25 Jul 1967 156.65 OF2
Anilides, Chemical control (weeds), Herbicides, Patents, Weeds.

12546-68
THE EFFECT OF TWO HERBICIDES, BROMOXYNIL AND DICAMBA, ON THE TRANSPIRATION OF TARTARY BUCKWHEAT AND BARLEY.
H A Friesen D A Dew
Can J Plant Sci 47(5):533-537
Sep 1967 450 C16
Barley, Bromoxynil, Buckwheat, Crop yields, Dicamba, Herbicides, Plant transpiration.
Abstract

12547-68
SKELETON WEED A SERIOUS THREAT TO CALIFORNIA AGRICULTURE.
T C Fuller
Calif Dept Agr Bull 55(1):20-22, 31
1966 2 C12M
Chemical control (weeds), Chondrilla juncea, Plants, Weeds.

12548-68
INFLUENCE OF TEMPERATURE ON PHYTOTOXICITY OF TRIAZINE HERBICIDES TO PINE SEEDLINGS.
T T Kozlowski S Sasaki J H Torrie
Amer J Bot 54(6):790-796 REF
Jul 1967 450 AM36
Chemical control (weeds), Herbicides, Phytotoxicity, Plant injuries, Seedlings, Temperature, Trees, Weed control.

12549-68
TOLERANCE OF FLAX TO DICAMBA APPLIED TO THE FOLIAGE AND TO THE SOIL.
E S Molberg
Can J Plant Sci 47(5):593-596
Sep 1967 450 C16
Chemical control (weeds), Dicamba, Flax, Herbicide residues, Soils.
Extract:
flax is susceptible to injury from root uptake of dicamba. soil applications caused definite reductions in growth. however, when there were both root uptake and foliage absorption, as in the overall spray injury to flax was still greater. this suggests that foliar damage may be quite significant if there is some concurrent uptake from the soil as well.

12550-68
INOCULATION OF MONTEREY PINE WITH DWARF MISTLETOE FROM BISHOP PINE.
J R Parmeter F W Cobb
Plant Dis Rep 51(10):856
Oct 1967 1.9 P69P
Arceuthobium campylopodum, Parasitic plants, Pinus radiata, Trees.

12551-68
PYRIDAZONES AND METHOD FOR CONTROLLING VEGETATION.
PATENT 3,326,660.
F Reicheneder K Dury A Fischer
Us Patent Office Offic Gaz 839(3):1092
20 Jun 1967 156.65 OF2

Chemical control (weeds), Herbicides, Patents, Pyridazones, Weed control.

12552-68
METHOD FOR KILLING POTATO VINES WITH AMMONIA.
PATENT 3,331,675.
P L Veltman
Us Patent Office Offic Gaz 840(3):908
18 Jul 1967 156.65 OP2
Ammonia, Climbing plants, Herbicides, Patents, Potatoes, Weeds.

12553-68
SIMULTANEOUS CONTROL OF FIELD FOXTAIL GRASS, SILKY BENT GRASS, AND BROAD LEAFED WEEDS. (GE)
B Wurzer
Mitt Deut Landwirt-ges 82(24)0846,848
15 Jun 1967 18 N39
Agrostis spica-venti, Weeds, Wheat.

12554-68
A CONTRIBUTION TO THE STUDY OF CONTROL OF WEEDS IN SOYBEAN STANDS. (SE)
T Zupancic
Poljoprivredni Pregl. 15(718)0273-281 REF
Jan 1966 21.5 P753
Crop yields, Soybeans, Weed control.

Other Pests

12555-66
THE EFFECTS ON WILDLIFE FROM NORWAY BAT CONTROL USING ZINC PHOSPHIDE BAIT.
B D Collins
Calif Dept Agr Bull 55(3):139-141
1966 2 C12M
Baits, Pest control, Rattus norvegicus, Rodenticides, Toxicity, Wildlife, Zinc phosphide.

30 LIVESTOCK PROTECTION

12556-68
VERTEBRAL BIOPSIES IN THE DIAGNOSIS OF BOVINE FLUORIDE TOXICOSIS.
S W Suttie
Amer J Vet Res 28(124):709-712 REF
May 1967 41.8 AM3A
Biopsy, Cattle, Fluorides, Poisoning, Toxicosis, Vertebrae.

Diseases

12557-68
FURTHER STUDIES ON PORCINE ENTEROVIRUSES ISOLATED AT CAMBRIDGE. I. INFECTIONS IN SPF PIGS AND THE PREPARATION OF MONOSPECIFIC ANTISERA. II. SEROLOGICAL GROUPING.
T S L Alexander A O Betts
Res Vet Sci 8(3), 321-337 REF
Jul 1967 41.8 R312
Antigens, Germ-free life, Porcine enteroviruses, Serological tests, Swine.
Abstract

12558-68
HUMAN RESPONSES TO EXPERIMENTAL INFECTION WITH INFLUENZA A/EQUI 2 VIRUS.
B H Alford J A Kasel J R Lehrich V Knight
Amer J Epidemiol 86(1)0185-192 REF
Jul 1967 449.8 AM3
Equine influenza viruses, Horses, Humans.

12559-68
AMERICAN VETERINARY MEDICAL ASSOCIATION. SCIENTIFIC PROCEEDINGS OF THE 104TH ANNUAL MEETING, JULY 9-13, 1967, DALLAS,TEXAS.
Amer Vet Med Ass J 151(12):1577-1917
15 Dec 1967 41.8 AM3
Conferences, Veterinary medicine.

12560-68
EFFECT OF LINCOMYCIN HYDROCHLORIDE UPON EXPERIMENTAL BOVINE COCCIDIOSIS.
A Arakawa R E Kohls A C Todd
Amer J Vet Res 28(124)0653-657
May 1967 41.8 AM3A
Cattle, Coccidiosis.

12561-68
AGGLUTINATION TEST FOR SHEEPPOX VIRUS USING ANTIGLOBULIN.
M Baharsefat B Yamini
Cornell Vet 57(4): 558-563
Oct 1967 41.8 C81
Agglutination test, Sheeppox virus.
Abstract

12562-68
LISTERIOZ SEL'SKOKHOZYAISTVENNYKH ZHIVOTNYKH (LISTERIOSIS OF LIVESTOCK).SP849.L583. (RUS)
I A Bakulov
296P.,MAP. MOSKVA, KOLOS, 1967
Infectious diseases, Listeriosis, Livestock.

12563-68
PULMONARY BOVINE TUBERCULOSIS IN AN OWNER AND IN HIS DAIRY HERD.
J H Baldwin
Cornell Vet 58(1):81-87
Jan 1968 41.8 C81
Animal vectors, Cattle, Humans, Mycobacterium bovis, Tuberculosis.

3D 12564-68

12564-68
INFECTIOUS BRONCHITIS VIRUS INTERFERENCE WITH NEWCASTLE DISEASE VIRUS IN MONOLAYERS OF CHICKEN KIDNEY CELLS.
C W Beard
Avian Dis 11(3):399-406 REF
Aug 1967 41.8 AV5
Culture media, Infectious bronchitis virus, Newcastle disease virus, Poultry.
Abstract

12565-68
THE IMMUNE RESPONSE OF CHICKENS TO NEWCASTLE DISEASE VACCINE FF 113.
K Belino P V Arambulo
Indian Vet. J. 44(7)0549-554
Jul 1967 41.8 IN2
Immunization, Newcastle disease vaccines, Philippines.
Abstract

12566-68
CYTOGENETIC STUDIES IN CANINE LYMPHOSARCOMA.
S A Benjamin F Noronha
Cornell Vet 57(4): 526-542.REF.
Oct 1967 41.8 C81
Cytogenetics, Dogs, Lymphosarcoma.
Abstract

12567-68
MYCOPLASMA GALLISEPTICUM IN A COMMERCIAL LARYNGOTRACHEITIS VACCINE.
W J Benton M S Cover F W Melchior
Avian Dis 11(3):426-429 REF
Aug 1967 41.8 AV5
Infectious laryngotracheitis, Mycoplasma gallisepticum, Newcastle disease virus, Poultry, Vaccines.
Abstract

12568-68
STUDIES ON THE TRANSMISSION OF THE INFECTIOUS BURSAL AGENT (IBA) OF CHICKENS.
W J Benton M S Cover J K Rosenberger
Avian Dis 11(3):430-438 REF
Aug 1967 41.8 AV5
Environment, Gumboro disease, Mycoplasma gallisepticum, Poultry.
Abstract

12569-68
OSTEOCHONDRITIS DISSECANS IN THE HUMERAL HEAD OF THE DOG; COMPARISON OF RESULTS ACHIEVED WITH CONSERVATIVE AND SURGICAL TREATMENT.
R Birkeland
Nord Veterinaermed 19(6):294-306, REF.
Jun 1967 41.8 N813
Bone diseases, Dogs, Osteochondrosis.
Abstract

12570-68
ECOLOGIC ASPECTS OF LISTERIOSIS.
D C Blenden F T Szatalowicz
Amer Vet Med Ass J 151(12):1761-1766 REF
15 Dec 1967 41.8 AM3
Cattle, Ecology, Listeria monocytogenes, Listeriosis, Sheep.
Abstract

12571-68
SWINE TOXICOSIS ASSOCIATED WITH FUMIGATED GRAIN.
J F Bone D H Smith D C England R L Goulding
Amer Vet Med Ass J 150(9):1022-1026
01 May 1967 41.8 AM3
Carbon tetrachloride, Ethylene dibromide, Ethylene dichloride, Feed toxicity, Fumigation, Grain, Humans, Insecticides, Poisoning, Swine.
Abstract

12572-68
INCLUSION-BODY RHINITIS OF PIGS: ATTEMPTS TO GROW THE CAUSAL AGENT IN TISSUE CULTURES.
J C Booth R F W Goodwin P Whittlestone
Res Vet Sci 8(3): 338-345
Jul 1967 41.8 R312
Inclusion-body rhinitis virus, Swine, Tissue culture.
Abstract

12573-68
THE EFFECTS OF VITAMIN D IN CHICKS.
A B Bosmann
Diss Abstr Sect B 28(3):1128B-1129B
Sep 1967 Z5055.U49D53
Chicks, Feed supplements, Vitamin d.

12574-68
STUDIES ON BLUETONGUE. III. COMPARISON OF TWO COMPLEMENT-FIXATION METHODS.
P Bonlanger G M Buckerbauer G L Bannister D P Gray A Girard
Can J Comp Med Vet Sci 31(7):166-17D REF
Jul 1967 41.8 C162
Bluetongue virus, Cattle, Complement fixation, Guinea pigs, Sheep.
Summary in French
Abstract

12575-68
BLUETONGUE OF SHEEP AND CATTLE: PAST, PRESENT, AND FUTURE.
J G Bowne A J Luedke M M Jochim
Amer Vet Med Ass J 151(12):18D1-18D3 REF
15 Dec 1967 41.8 AM3
Bluetongue virus, Cattle, Culicoides variipennis, Insect vectors, Serological tests, Sheep, Vaccines, Wildlife.

12576-68
DIE LISTERIOSE DES RINDES; SCHRIFTTUMSUBERSICH. (LISTERIOSIS OF CATTLE; LITERATURE SURVEY).
P Brauer
Hanover Tierarztl Hochsch Inang Diss 23,95 P.
1966 41.2 H198
Cattle, Listeriosis, Reviews.

12577-68
HYPOMAGNESAEMIC TETANY IN CATTLE. I. INCIDENCE, AETIOLOGY, DIAGNOSIS AND TREATMENT.
K N Burns B Allcroft
Brit Vet J 123(8):340-348 REF
Aug 1967 41.8 V643
Cattle, Hypomagnesemia, Tetany.
Abstract

12578-68
RATES OF FORMATION AND ABSORPTION OF CEREBROSPINAL FLUID IN BOVINE HYPOVITAMINOSIS A.
M C Calboun H D Hurt H D Eaton J E Rousseau R C Hall
J Dairy Sci 50(9):1486-1494 REF
Sep 1967 44.8 J822
Cattle, Cerebrospinal fluid, Hypovitaminosis.
Abstract

12579-68
EFFECT OF INCUBATION TEMPERATURE AND SEBUM CONTENT IN AGAR OVERLAY ON PLAQUE PRODUCTION BY FOOT-AND-MOUTH DISEASE VIRUS.
C H Campbell
Can J Comp Med Vet Sci 31(10):251-255 REF
Oct 1967 41.8 C162
Culture media, Foot-and-mouth disease virus, Platelets, Serum, Temperature.

12580-68
IMMUNOLOGIC COMPETENCE OF THYMECTOMIZED NEONATAL CALVES.
E J Carroll G H Theilen R L Leighton
Amer J Vet Res 29(1):67-70 REF
Jan 1968 41.8 AM3A
Cattle, Immunology, Leukemia, Thymectomy.
Abstract

12581-68
BOVINE PAPULAR STOMATITIS WITH APPARENT TRANSMISSION TO MAN.
C A Carson K M Kerr
Amer Vet Med Ass J 151(2):183-187
15 Jul 1967 41.8 AM3
Animal vectors, Humans.
Abstract

12582-68
MYCOBACTERIUM AVIUM INFECTION IN CATTLE: A CASE SERIES.
D R Cassidy L G Morehouse H A McDaniel
Amer J Vet Res 29(2):405-410,MAP. REF
Feb 1968 41.8 AM3A
Cattle, Mycobacterium avium.
Abstract

12583-68
VICTORY OVER BRUCELLOSIS NEARS IN CALIFORNIA.
E F Chastain L C Vanderwagen
Calif Dept Agr Bull 55(3):135-138
1966 2 C12M
Brucella abortus vaccines, Brucellosis, Eradication, Immunization, Livestock.

12584-68
EFFECT OF DIET O8 DIETHYLSTILBESTROL ON FATTY ACID COMPOSITIICN CF 8CVINE TISSUES.
D C Cburcb A T Ralston W H Kennick
J Anim Sci 26(6):1296-1301 REF
Nov 1967 49 J82
Cattle, Cbromatograpby, Diet, Dietbylstilbestrol, Fatty acids, Feed additives, Tissues.
Abstract

12585-68
KONTROLLIERTE BEHANDLUNGSVERSUCHE 8EI FREMDKORPE8K8ANKEN RINDERN MIT IEM KAFIG-MAGNETEN; MODELL RINDERKLINIK HANCVE8 (CCNTROLLED-TREATMENT EXPERIMENTS WITH PERMANENT MAGNETS OF FOREIGN 8ODY DISEASEL CATTLE (HANOVER CATTLE CLINIC MODEL). (GE)
C Clausen
Hancver Tierarztl 8ocbscb Inang Diss 26,24 P. REF
1966 41.2 B198
Cattle, Foreign bcdies, Magnets, Peritonitis.
8eticuloperotinitis tranmatica

12586-68
SEGREGATION OF A NONHEMADSOBBING AFRICAN SWINE FEVER VIRUS IN TISSUE CULTUBE.
L Coggins
Cornell Vet 58(1):12-20
Jan 1968 41.8 C81
African swine fever virus, Baby pigs, Leukocytes, Tissue culture.
Abstract:
infection cf porcine bnffy coat (BC) cultures witb African swine fever (ASF) virus resnlts in two distinct reactions: benadsorptior followed by cytolysis of infected leukocytes.

12587-68
SYSTEMIC MYCOSIS IN NEONATAI CALVES.
U O Cordes W A Boyal E 8 Sbortridge
New Zeal Vet J 15(8):143-149, REF.
Aug 1967 41.8 N483
Calves, Mycosis.
Abstract

12588-68
NATUBALLY CCCU8ING HISTOPLASMOSIS IN GUINEA PIGS.
W M Correa A C Pacbeco
Can J Comp Med Vet Sci 31(8):203-206 8EF
Aug 1967 41.8 C162
Guinea pigs, 8istoplasmosis.
Abstract

12589-68
TBANSMISSION EXPERIMENTS WITB 8AT 8A8IES ISOLATES: 8ESFONSES CF CERTAIN CA8NIVORES AND RODENTS TO RABIES VIRUSES F8CM FOU8 SPECIES OF 8ATS.
D G Costantine G C Solomon D F Woodall
Amer J Vet Res 29(1):181-190 REF
Jan 1968 41.8 AM3A
8ats, Babies virus, 8odents.
Abstract

12590-68
CA8DIOVASCULAR SYSTEM IN NATURALLY OCCU88ING COPPE8 DEFICIENCY AND SWAYBACK IN S8EEP.
W F Conlson E M 8arlow P A Cancilla N Weissman A Linker J Waisman W 8 Carnes
Amer J Vet Res 28(124)0815-818
May 1967 41.8 AM3A
Copper, Deficiency diseases, Sbeep, Swayback.

12591-68
EFFECTS OF ATTENUATED HOG CBOLE8A VIBUS IN PREGNANT SWINE AT VA8IOUS STAGES OF GESTATION.
W O Cowart L G Morebouse
Amer Vet Med Ass J 151(12):1788-1794 BEF
15 Dec 1967 41.8 AM3
Hog cbolera virns, Pregnancy, Swine.
Abstract

12592-68
DIETA8Y SODIUM AND POTASSIUM IN INFECTIOUS 88ONC8ITIS OF CBICKENS.
R B Cumming
Anstralian Vet J 43(4):156
Apr 1967 41.8 AU72
Cbickens, Infecticns broncbitis, Potassinm, Sodinm.

12593-68
AN INDIRECT HAEMAGGLUTINATION TEST FOR THE DIAGNOSIS OF 8ABESIA ARGENTINA INFECTION IN CATTLE.
J A Curnow B A Curnow
Australian Vet J 43(8):286-290
Aug 1967 41.8 AU72
Agglutination, 8abesia argentina, Piroplasmosis.
Abstract

12594-68
IN VITRO AGGLUTINATION OF BOVINE ERYTHROCYTES INFECTED WITH 8ABESIA ARGENTINA.
J A Curnow
Nature 217(5125):267-268
20 Jan 1968 472 N21
Agglutination, 8abesia argentina, Cattle, Erythrocytes, Piroplasmosis.

12595-68
THE USE OF PLAQUE MORP8OLOGY IN THE STUDY OF NEWCASTLE DISEASE VIRUS.
M D Daniel
Diss Abstr Sect 8 28(3):779B
Sep 1967 Z5055.U49D53
Blood, Newcastle disease virus.

12596-68
NOTE ON A SIMPLIFIED ION EXCHANGE METHOD FOR SULFAMETHAZINE IN FEEDS.
E J Davis
Ass Offic Anal Chem J 50(4):870-872
Aug 1967 381 AS7
Feed additives, Ion excbange, Sulfametbazine.

12597-68
TREATMENT OF ARTERIOSCLEROTIC DISEASES. PATENT 3,337,406.
P T De Marco L J Salerno
Us Patent Office Offic Gaz 841(4):1279
22 Aug 1967 156.65 OP2
Arteriosclerosis, Atberosclerosis, Immunization, Patents, Polyvinylpyrrolidone, Vaccines.

12598-68
MUCINASE ACTIVITY OF VIBRIO FETUS.
S M Dennis
Cornell Vet 57(4): 630-637 8EF
Oct 1967 41.8 C81
Cattle, Vibrio fetus.
Abstract

12599-68
METHOD AND COMPOSITIONS FOR ENHANCING THE UTILIZATION OF IRON BY MAMMALS. PATENT 3,367,834.
M Dexter J V Princiotto M Rubin
Us Patent Office Offic Gaz 847(1):230
06 Feb 1968 156.65 OP2
Amines, Animal nutrition, Cbelation, Iron, Mammals, Patents.

12600-68
A VIRAL GASTROENTE8ITIS OF ONTARIO SWINE. I. CLINICAL ILLNESS AND RECOVERY OF THE VIRUS.
J Ditcbfield H G Pearce R D Jolly R A Curyis
Can J Comp Med Vet Sci 31(8):193-196
Aug 1967 41.8 C162
Intestines, Swine, Transmissible gastroenteritis virus.
Abstract

12601-68
A P8ELIMINARY EVALUATION OF SEROLOGIC TESTS FO8 EQUINE INFECTIOUS ANEMIA.
W J B Ditcbfield G H Waddell V R Sanrino M B Teigland
Amer Vet Med Ass J 151(12):1840-1846
15 Dec 1967 41.8 AM3
Diagnosis, Equine infectious anemia, Horses, Serological tests.
Abstract

12602-68
STREPTOMYCIN TREATMENT OF 8OVINE CARRIERS OF LEPTOSPIRA POMONA.
P C Doberty
Anstralian Vet J 43(4):138-139
Apr 1967 41.8 AU72
Animal vectors, Cattle, Leptospira pomona, Streptomycin.
Abstract

12603-68
T8E EFFECT OF FEEDING OXYTETRACYCLINE ON LEPTOSPIRU8IA IN PIGS INFECTED WIT8 LEPTOSPIRA POMONA.
P C Doberty I D 8aynes

30 12604-68

Australian Vet J 43(4):135-137, REF.
Apr 1967 41.8 AU72
Leptospira pomona, Oxytetracycline, Urine.
Abstract

12604-68
MYCOPLASMAL SALPINGITIS OF CHICKENS AND TURKEYS.
C H Dcmermuth W B Gross R T DuBose
Avian Dis 11(3):393-398
Aug 1967 41.8 AV5
Mycoplasma gallisepticum, Poultry, Salpingitis.

12605-68
ACUTE HAEMORRHAGIC ENTERITIS ASSOCIATED WITH WELCHIA PERFRINGENS IN ZEBU CATTLE IN SENEGAL. (FR.)
M P Doutre
Rev Elevage Med Vet Pays Trop (N.S.)20(2):345-347
1967 41.8 R3262
Cattle, Enteritis.
Abstract

12606-68
FIRST OBSERVATION OF BETA C BOTULISM IN SWINE IN SENEGAL. (FR.)
M P Doutre
Rev Elevage Med Vet Pays Trop (N.S.)20(2):331-333
1967 41.8 R3262
Botulism, Clostridium botulinum, Swine.
Abstract

12607-68
EVALUATION OF GENERAL COURSE OF ERYTHROCYTE SEDIMENTATION CURVE IN HORSES. I. (GE)
J Dusek
Arch Exp Veterinarmed 21(2):577-592
May 1967 41.8 EX7
Erythrocyte sedimentation reaction, Horses.
Abstract

12608-68
EFFECT OF DIETARY ORGANIC PHOSPHORUS ON MAGNESIUM METABOLISM IN SHEEP.
J E Dutton J P Fontenot
J Anim Sci 26(6):1409-1414 REF
Nov 1967 49 J82
Diet, Hypomagnesemia, Magnesium, Metabolism, Phosphorus, Sheep.
Abstract

12609-68
A RAPID SCREENING TEST FOR DETECTING SALMONELLA TYPHIMURIUM INFECTION IN POULTRY.
M A El-Agrcud I M Sadek
Arab Vet Med Ass J 26(3):235-240 Ref
Jul 1966 41.9 Arl
Diagnosis, Poultry, Salmonella typhimurium, Serological tests.
Abstract

12610-68
BUQUINOLATE, A NEW BROAD SPECTRUM COCCIDIOSTAT.
A T Engle E P Humphrey C A Johnson
Poultry Sci 46(4):789-795
Jul 1967 47.8 AM33P
Buquinolate, Coccidiostats, Eimeria.

12611-68
PASTEURELLOSIS IN WILD BIRDS IN MASSACHUSETTS.
G P Faddoul G W Fellows J Baird
Avian Dis 11(3):413-418 REF
Aug 1967 41.8 AV5
Birds, Epizootic diseases, Pasteurellosis.
Abstract

12612-68
THE PRESENCE OF ANTIBODIES IN THE OVINE SERUM INHIBITING THE HEMAGGLUTINATION BY MYXOVIRUS PARAINFLUENZA. (FR)
P Faye A Charton C Le Layec
Acad Vet France Bull 40(4):203-207 REF
Apr 1967 41.9 R24
Agglutination, Antibodies, Blood, Parainfluenza-3, Serum, Sheep, Viruses.

12613-68
TREATMENT AND CHEMICAL CONTROL OF THE BRUCELLIC ABORTION OF CATTLE WITH 4,4'-DIAMIDINODIAZOAMINOBENZENE. (FR.)
B Fiocre
Acad Vet France Bull 40(4):159-167
Apr 1967 41.9 B24
Abortion, Berenil, Brucellosis, Cattle.

12614-68
EFFECT OF BOVINE COCCIDIOSIS ON BLOOD SEBUM SODIUM AND POTASSIUM LEVELS IN CALVES.
P P Fitzgerald
Amer J Vet Res 28(124)0667-670
May 1967 41.8 AM3A
Blood serum, Cattle, Coccidiosis, Potassium, Sodium.

12615-68
VERSUCHE ZUR BIOLOGISCHEN BEKAMPFUNG DER STAPHYLOKOKKEN-MASTITIS (EXPERIMENTS ON BIOLOGICAL CONTROL OF STAPHYLOCOCCAL MASTITIS). (GE)
K Forster
17,42 P.
1966 41.2 M9222
Biological control, Cattle, Livestock diseases, Mastitis, Nisin, Staphylococci.

12616-68
TRANSMISSION OF ATTENUATED AND VIRULENT BLUETONGUE VIRUS WITH CULICOIDES VARIIPENNIS INFECTED ORALLY VIA SHEEP.
N M Foster R H Jones A J Luedke
Amer J Vet Res 29(2):275-279
Feb 1968 41.8 AM3A
Bluetongue virus, Culicoides variipennis, Insect vectors, Sheep.
Abstract

12617-68
DETECTION OF ERYTHROCYTE BOUND GLOBULIN IN PLASMODIUM GALLINACEUM INFECTED CHICKENS.
O P Gautam
Diss Abstr Sect B 28(3):750B-751B
Sep 1967 Z5055.U49053
Avian malaria, Chickens, Erythrocytes, Plasmodium gallinaceum.

12618-68
MODIFIED LARYNGOTRACHEITIS VACCINE. PATENT 3,331,736.
E F Gelenczei
Us Patent Office Offic Gaz 840(3):923
18 Jul 1967 156.65 OF2
Immunization, Laryngotracheitis, Patents, Poultry, Respiratory system, Vaccines.

12619-68
THE EXPERIMENTAL USE OF BULL SEMEN CONTAMINATED WITH PSEUDOMONAS AERUGINOSA ORGANISMS.
S M Getty D J Ellis
Amer Vet Med Ass J 151(12):1688-1691 REF
15 Dec 1967 41.8 AM3
Bulls, Pseudomonas aeruginosa, Semen.
Abstract

12620-68
IMMUNIZATION OF HORSES AGAINST AFRICAN HORSE-SICKNESS WITH ATTENUATED NEUROTROPIC VIRAL STRAINS PROPAGATED IN CHICKEN EMBRYOS.
L Goldsmit
Amer J Vet Res 29(1):133-141 REF
Jan 1968 41.8 AM3A
African horse sickness virus, Horses, Immunization.
Abstract

12621-68
ERGOT POISONING OF CATTLE GRAZING DALLIS GRASS.
D E Goodwin
Amer Vet Med Ass J 151(2):204-205
15 Jul 1967 41.8 AM3
Cattle, Ergotism, Paspalum dilatatum.
Abstract

12622-68
STUDIES ON BLUETONGUE. VI. ANIMAL TRANSMISSION STUDIES.
D P Gray N G Willis A Girard G M Ruckerbauer P Boulanger
Can J Comp Med Vet Sci 31(7):182-188 REF
Jul 1967 41.8 C162
Bluetongue virus, Cattle, Fluorescent antibody technic, Serological tests, Sheep, Transmission.
Summary in French
Abstract

12623-68
CRITERIA FOR DETERMINING THE VALIDITY OF A VIRUS ISOLATION.
R P Hanson J Spalatin E M Dickinson
Avian Dis 11(3):508-514 REF
Aug 1967 41.8 AV5
Virology.
Abstract

12624-68
LOW INCIDENCE OF STAPHYLOCOCCAL DERMATITIDES IN ANIMALS WITH HIGH INCIDENCE OF STAPHYLOCOCCUS AUREUS. 3. PRELIMINARY STUDY OF LABORATORY ANIMALS.
B R Hearst
Vet Med/small Anim Clin 62(7):666-667
Jul 1967 41.8 M69
Dermatitis, Laboratory animals, Staphylococcus aureus.

12625-68
IMMUNOLOGIC RESPONSE OF THE EQUINE TO SALMONELLA TYPHIMURIUM BACTERIN.
C M Hibbs J H Coffman
Cornell Vet 57(3):454-464 REF
Jul 1967 41.8 C81
Horses, Salmonella bacterins.
Abstract

12626-68
DETECTION OF CHICK EDEMA FACTOR IN FATS AND FATTY ACIDS BY ELECTRON CAPTURE GAS CHROMATOGRAPHY.
G B Higginbotham D Firestone L Chavez A D Campbell
Ass Offic Anal Chem J 50(4):874-879
Aug 1967 381 AS7
Chicks, Chromatography, Edema, Fats, Fatty acids.

12627-68
INFLUENCE OF DIETARY MAGNESIUM ON METABOLISM OF CALCIUM AND MAGNESIUM IN SHEEP.
C A Bjerpe
Amer J Vet Res 29(1):143-151 REF
Jan 1968 41.8 AM3A
Calcium, Deficiency diseases, Diet, Hypomagnesemia, Magnesium, Metabolism, Sheep.

12628-68
ZINC DEFICIENCY IN REPRODUCING GILTS FED A DIET HIGH IN CALCIUM AND ITS EFFECT ON TISSUE ZINC AND BLOOD SERUM ALKALINE PHOSPHATASE.
W G Hoekstra E C Faltin C W Lin H F Roberts R H Grummer
J Anim Sci 26(6):1348-1357 REF
Nov 1967 49 J82
Alkaline phosphatase, Blood serum, Calcium, Deficiency diseases, Diet, Feed additives, Swine, Tissues, Zinc.
Abstract

12629-68
IMMUNITY FOLLOWING AEROSOL EXPOSURE TO HIGH-EMBRYO-PASSAGE AVIAN INFECTIOUS BRONCHITIS VIRUS.
M S Hofstad
Avian Dis 11(3):452-458
Aug 1967 41.8 AV5
Aerosols, Immunization, Infectious bronchitis virus, Poultry.
Abstract

12630-68
THE BLOOD PICTURE IN STEERS FOLLOWING ORAL DOSING WITH DICTYOCAULUS VIVIPARUS AND DURING A LATENT INFECTION WITH VIRUS PNEUMONIA.
H H Holman S M Dew C D Brackwell
Brit Vet J 123(8):349-357
Aug 1967 41.8 V643
Blood, Cattle, Dictyocaulus viviparus, Virus pneumonia.
Abstract

12631-68
AVIAN LEUKOSIS TREATMENT WITH INACTIVATED RODS SARCOMA VIRUS. PATENT 3,326,767.
J C Holper E M Kiggins
Us Patent Office Offic Gaz 839(3):1115
20 Jun 1967 156.65 OP2
Avian leukosis complex, Immunization, Patents, Poultry, Rous sarcoma virus, Vaccines.

12632-68
ADENOHYPOPHYSEAL INSUFFICIENCY IN TWO COWS WITH PREGNANCY TOXEMIA.
J B Howard W Adams M W Sloss
Amer Vet Med Ass J 152(1):17-24
01 Jan 1968 41.8 AM3
Cattle, Pituitary gland, Pregnancy disease, Toxemia.
Abstract

12633-68
CYTOMEGALIC INCLUSION DISEASE IN SAND RATS (PSAMMOMYS OBESUS). HISTOPATHOLOGIC.
H D Hunt L V Melendez N W King
Amer J Vet Res 28(125):1191-1193
Jul 1967 41.8 AM3A
Inclusion-body rhinitis virus, Rodents.
Abstract

12634-68
RESEARCH NOTE: INCIDENCE OF ENDOPARASITISM IN A GROUP OF PIGEONS IN THE CHICAGO AREA.
B J Jaskoski J D Plank
Avian Dis 11(3):342-344 REF
Aug 1967 41.8 AV5
Ascaridia, Capillaria, Coccidiosis, Haemoproteus columbae, Parasitism, Pigeons, Trypanosoma hannai.
Abstract

12635-68
ISOLATION AND IDENTIFICATION OF THE SPOREFORMING ANAEROBES COMMONLY ENCOUNTERED IN DOMESTIC ANIMALS.
A M Jasmin
Cornell Vet 57(3):364-382 REF
Jul 1967 41.8 C81
Livestock.
Abstract

12636-68
POTASSIUM AND ITS ROLE IN PARTURIENT PARESIS.
B L Johnson
Amer Vet Med Ass J 151(12):1681-1687 REF
15 Dec 1967 41.8 AM3
Cattle, Milk fever, Potassium, Therapeutics.
Abstract

12637-68
CHRONIC MERCURIAL POISONING IN SWINE. A CASE REPORT OF AN OUTBREAK WITH SOME EPIDEMIOLOGICAL CHARACTERISTICS OF HOG CHOLERA.
R F Kahrs
Cornell Vet 58(1):67-75 REF
Jan 1968 41.8 C81
Epidemiology, Fungicide residues, Hog cholera, Mercury compounds, Poisoning, Swine, Wheat.
Abstract:
an outbreak of fatal chronic mercurial poisoning was caused by ingestion of wheat treated with a mercurial fungicide. hog cholera was suspected because neurologic and petechial hemorrhages were observed.

12638-68
RESEARCH NOTE: DIETARY INFLUENCE OF A COD LIVER OIL FRACTION ON AVIAN LYMPHOCYTOMA.
T J Kakuk C Olson
Avian Dis 11(3):336-341 REF
Aug 1967 41.8 AV5
Cod liver oil, Diet, Lymphocytoma, Neoplasms, Poultry.
Abstract

12639-68
PORCINE NEPHROBLASTOMA.
R S Kataria J L Soni
Indian Vet. J. 44(7)D555-55B REF
Jul 1967 41.8 IN2
Neoplasms, Nephroblastoma, Swine.
Abstract

12640-68
DIETHYLCARBAMAZINE IN FILARIASIS CONTROL.
J F Kessel
Calif Mosquito Contr Ass Proc Pap 35:16-22 REF
1967 428 C763
Diethylcarbamazine, Drug therapy, Filariasis.

12641-68
SALPINGO-OVARIO-BURSITIS AMONGST BUFFALOES.
C K A Khan A Salam
Indian Vet. J. 44(7)D572-575 REF
Jul 1967 41.8 IN2
Buffaloes, Bursitis, Ovaries, Uterus.
Abstract

12642-68
INVESTIGATIONS ON IMMUNOGENETICS OF ETHANOL-INACTIVATED VACCINES AGAINST AUJESZKY'S DISEASE. (GE)
Kh Kharalambiev K Merkerski S Simeonov M Iotov I Stoev K Dimitrov I Nikolov
Arch Exp Veterinarmed 21(2):301-307 REF
May 1967 41.8 EX7
Alcohols, Cattle, Immunization, Pseudorabies, Sheep, Swine, Vaccines.
Abstract

30 12643-68

12643-68
EPIPHRENIC DIVERTICULA OF THE ESOPHAGUS IN A DOG.
C D Knecht E Small R Slnsher H A Reynolds
Amer Vet Med Ass J 152(3):268-270
01 Feb 1968 41.8 AM3
Diverticular hernia, Dogs, Esophagus.
Abstract

12644-68
THE EQUINE RESPIRATORY DISEASE SYNDROME IN THE PACIFIC NORTHWEST.
L M Koger
Amer Vet Med Ass J 151(12):1611-1614
15 Dec 1967 41.8 AM3
Horses, Respiratory diseases.

12645-68
RISTOLOGICAL AND ELECTRON-MICROSCOPIC STUDIES ON EXPERIMENTAL LIVER CIRRHOSIS IN DUCKLINGS PRODUCED BY AFLATOXIN. (GE
H Kobler A Schumacher
Zentralb Veterinarmed Reihe A 14(5)0395-415 REF
Aug 1967 41.8 Z5
Aflatoxin, Cirrhosis, Ducks, Electron microscopy, Histology, Liver diseases, Toxicology.

12646-68
EVALUATION OF AN INTRAVENOUS TUBERCULIN TEST IN CATTLE.
K E Kopecky A R Larsen R A Packer
Amer J Vet Res 29(1):31-38
Jan 1968 41.8 AM3A
Cattle, Tuberculin test.
Abstract

12647-68
EXUDATIVE EPIDERMITIS IN PIGS: BACTERIOLOGICAL STUDIES ON THE CAUSATIVE AGENT.
C L'Ecuyer
Can J Comp Med Vet Sci 31(10):243-247 REF
Oct 1967 41.8 C162
Exudative epidermitis, Swine.
Abstract

12648-68
CHROMATOGRAPHIC PURIFICATION OF INFLUENZA VIRUS WITH RHUSHITE MODIFIED BY AUTOCLAVING.
M Lapidus
Us Patent Office Offic Gaz 847(2):516
13 Feb 1968 156.65 OP2
Chromatography, Influenza virnses, Vaccines.

12649-68
UBER EINE METHODE ZUR UNTERSUCHUNG DES THYMUS BEI FERKELKRANKHEITEN (METHOD FOR THYMUS STUDY IN PIGLET DISEASES). (GE)
F J Lehnhardt
Hancver Tierarztl Hochscb Inang Diss 39,56 P.
1966 41.2 R198
Swine, Thymns gland.

12650-68
BRUCELLOSIS ANTIGENS. PATENT 3,342,684.
A Lembke K E von Milczewski
Us Patent Office Offic Gaz 842(0):1070
19 Sep 1967 156.65 OP2
Antigens, Bacterial vaccines, Brucellosis, Glycolipoprotein, Immunizatlcn, Patents, Vaccines.

12651-68
COMPARATIVE INVESTIGATIONS ON STOMATITIS PAPULOSA, PSEUDOCOWPOX, AND MILKERS' NODULES VIRUS STRAINS. (GE)
H Liebermann J Nagington P Schulze
Arcb Exp Veterinarmed 21(2):625-627 REF
May 1967 41.8 EX7
Bovine papular stomatitis virus, Cowpox virus, Milkers' nodnles virus, Stomatitis.
Abstract

12652-68
CONTAGIOUS BOVINE PLEUROPNEUMONIA AND THE PROBLEMS ASSOCIATED WITH ITS CONTROL.
E P Lindley
Amer Vet Med Ass J 15 (12):1810-1815 REF
15 Dec 1967 41.8 AM3
Brucellosis, Foot-and-mouth disease, Pleuropneumonia, Tnberculosis.

12653-68
EPIZOOTIOLOGY OF BRUCELLOSIS IN A FLOCK OF SHEEP.
D W Lnchsinger R K Anderson
Amer Vet Med Ass J 150(9):1017-1021 REF
01 May 1967 41.8 AM3
Brucellosis, Epizootic diseases, Sheep.
Abstract

12654-68
BLUETONGUE VIRUS IN SHEEP. INTENSIFICATION OF CLINICAL RESPONSE BY PREVIOUS ORAL ADMINISTRATION.
A J Lnedke M M Jochim
Cornell Vet 58(1):48-58 REF
Jan 1968 41.8 C81
Blnetongue virns, Sheep.
Abstract

12655-68
CASE REPORT: ISOLATION OF MYCOPLASMA GALLISEPTICUM FROM BOBWHITE QUAIL (COLINUS VIRGINIANUS).
D L Madden W H Henderson H E Mosses
Avian Dis 11(3):378-380
Aug 1967 41.8 AV5
Mycoplasma gallisepticnm, Quail.
Abstract

12656-68
BASIC BIOLOGICAL CHARACTERISTICS OF MYCOPLASMA.
D L Madden N H McCnllongh
Amer Vet Med Ass J 151(12):1638-1649 REF
15 Dec 1967 41.8 AM3
Deoxyribonucleic acid, Mycoplasma.
Abstract

12657-68
INCORPORATION OF RADIOACTIVE AMINO ACIDS BY COXIELLA BURNETII AND ITS HOST, THE CHICK EMBRYO.
L P Mallavia
Diss Abstr Sect B 28(3):780B-781B
Sep 1967 Z5055.D49D53
Amino acids, Carbon isotopes, Coxiella bnrnetii, Radioactive tracers, Theses.

12658-68
THE USE OF POLYVALENT INACTIVATED VACCINE THERAPEUTICALLY AGAINST EQUINE INFLUENZA.
C I Manners
Amer Vet Med Ass J 151(12):1609-1610
15 Dec 1967 41.8 AM3
Eqnine influenza, Horses, Vaccines.

12659-68
CARBANILIDE COMPOSITIONS AND METHODS OF USING SAME.
PATENT 3,340,145.
H Martin P Schmidt M Wilhelm
Us Patent Office Offic Gaz 842(1):291
05 Sep 1967 156.65 OP2
Carbanilides, Feed snpplements, Patents, Urea derivatives.

12660-68
EFFECT OF OAT HULLS AND OTHER OAT FRACTIONS ON THE DEVELOPMENT OF GASTRIC ULCERS IN SWINE.
C V Maxwell N A Reese H A Anggenburg E M Reimann T Kowalczyk R H Grummer W G Hoekstra
J Anim Sci 26(6):1312-1318 REF
Nov 1967 49 J82
Diet, Oats, Swine, Ulcers.
Abstract

12661-68
UDDER INSUFFLATION AND ITS PHYSIOLOGIC BASIS FOR TREATMENT OF PARTURIENT PARESIS IN CATTLE.
G P Mayer C F Ramberg D S Kronfeld
Amer Vet Med Ass J 151(12):1673-1680 REF
15 Dec 1967 41.8 AM3
Cattle, Paresis, Therapentics, Udders.
Abstract

12662-68
REPLICATION OF INFECTIOUS LARYNGOTRACHEITIS VIRUS IN CHICKEN KIDNEY CELL CULTURE.
V M Mayer F M Hetrick W D Keenum H M Oevolt
Amer J Vet Res 28(124)0825-832 REF
May 1967 41.8 AM3A
Cultnre media, Infections laryngotracheitis, Poultry.

12663-68
ISOLATION AND IDENTIFICATION OF CLOSTRIDIUM HEMOLYTICUM IN CATTLE IN FLORIDA.
C S McCain

Amer J Vet Res 28(124)U878-880 REF
May 1967 41.8 AM3A
Cattle, Clostridium hemolyticum, Red water disease.

12664-68
A MYCOPLASMA ASSOCIATED WITH OVINE ORCHITIS.
P K McIlwain F M Rolin
Amer J Vet Res 28(124), 885-887.
May 1967 41.8 AM3A
Mycoplasma, Sheep, Testes.

12665-68
MICROBIAL PERSISTENCE AND LATENT INFECTION.
K A McKay A R Corner J L Byrne
Can J Comp Med Vet Sci 31(10):256-259 REF
Oct 1967 41.8 C162
Drug resistant microorganisms, Microorganisms.
Review of the literature

12666-68
MYCOPLASMA GALLISEPTICUM IN THE RESPIRATORY TRACT OF THE FOWL.
D A McMartin
Vet Rec 81(13):317-320
23 Sep 1967 41.8 V641
Chickens, Mycoplasma gallisepticum, Mycoplasmosis.
Abstract

12667-68
CLINICAL EXAMINATION AND DIAGNOSIS OF THE DISEASED EQUINE FOOT.
F J Milne
Amer Vet Med Ass J 151(12):1599-1608
15 Dec 1967 41.8 AM3
Diagnosis, Horses, Navicular disease, Osteitis.

12668-68
COMPARATIVE STUDIES ON IMMUNOGENICITY OF ARIZONA (7:1,7,8) ADJUVANT BACTERINS IN MICE AND TURKEYS.
T Miyamae B E Adler
Avian Dis 11(3):380-392
Aug 1967 41.8 AV5
Immunization, Mice, Turkeys, Vaccines.
Abstract

12669-68
A HALF CENTURY OF SUCCESSFUL CONTROL OF THE BOVINE TUBERCULOSIS IN CAMBRAI. (FR.)
G Moine
Acad Vet France Bull 40(4):181-185
Apr 1967 41.9 B24
Cattle, Tuberculosis.

12670-68
A SURVEY OF ABORTIONS AND LONG RETURN INTERVALS IN DAIRY HERDS IN THE HUNTLY DISTRICT.
K Moller P E Newling R J Robson G J Jansen J A Meursinge
New Zeal Vet J 15(8):137-142
Aug 1967 41.8 N483
Abortion, Cattle, New Zealand.
Abstract

12671-68
PRECIPITATION OF BACITRACIN UPON AN INERT, INSOLUBLE, INORGANIC SUPPORT FOR USE IN ANIMAL FEEDS. PATENT 3,345,178.
C H Monroe G E Ward
Us Patent Office Offic Gaz 843(1):238
03 Oct 1967 156.65 OF2
Antibiotics, Bacitracin, Beer, Feed additives, Patents.

12672-68
PATHOGENSIS OF LEPTOSPIRAL ABORTION IN CATTLE.
J C Murphy
Diss Abstr Sect B 28(3):969E
Sep 1967 Z5055.U49D53
Abortion, Cattle, Leptospira pomona.

12673-68
AN OUTBREAK OF LISTERIOSIS IN CHICKENS.
M S Nagi J D Verma
Indian Vet. J. 44(7)0539-543 REF
Jul 1967 41.8 IN2
India, Listeriosis, Livestock diseases, Poultry.
Abstract

12674-68
CHOLELITHIASIS IN A DOG.
N C Nelson J F Piker R A Welsh
Amer Vet Med Ass J 152(1):47-50
01 Jan 1968 41.8 AM3
Dogs, Gallstones.
Abstract

12675-68
UTILIZATION OF THE CARD TEST IN BRUCELLOSIS ERADICATION.
P Nicoletti
Amer Vet Med Ass J 151(12):1778-1783 REF
15 Dec 1967 41.8 AM3
Brucellosis, Cattle, Serological tests.
Abstract

12676-68
THE CHALLENGE OF FIELD DIAGNOSIS AND CONTROL OF EQUINE INFECTIOUS ANEMIA.
S R Nusbaum
Amer Vet Med Ass J 151(15):1847-1851
15 Dec 1967 41.8 AM3
Diagnosis, Equine infectious anemia, Horses.

12677-68
INTRODUCTORY REMARKS ON LABORATORY SUPPORT IN EQUINE INFECTIOUS ANEMIA DIAGNOSIS.
J L O'Hara
Amer Vet Med Ass J 151(12):1828-1829
15 Dec 1967 41.8 AM3
Diagnosis, Equine infectious anemia, Horses.

12678-68
ASTRAGALUS MOLLISSIMUS (LOCOWEED) TOXICOSIS OF HORSES IN WESTERN KANSAS.
F W Oehme W E Railie L C Hulbert
Amer Vet Med Ass J 152(3):271-278 REF
01 Feb 1968 41.8 AM3
Astragalus, Horses, Poisoning, Weeds.
Abstract

12679-68
METASTATIC MAMMARY TUMOURS IN THE DOG. I. CLINICO-PATHOLOGICAL STUDIES ON MAMMARY CARCINOMAI. METASTASIERTE MAMMATUMOREN BEIM RUND. I. KLINISCH-PATHOLOGISCHE UNTERSUCHUNGEN UBER MAMMAKARZINOME. (GE)
P G Van Ooyen W Misdorp
Zentralb Veterinarmed Reihe A 14(4)0315-327
Jun 1967 41.8 Z5
Carcinoma, Dogs, Mammary glands, Sarcoma.

12680-68
METASTATIC MAMMARY TUMOURS IN THE DOG. II. CLINICO-PATHOLOGICAL STUDIES ON MAMMARY SARCOMA AND CARCINO-SARCOMA). METASTASIERTE MAMMATUMOREN BEIM RUND. II. KLINISCH-PATROLOGISCHE UNTERSUCHUNGEN UBER SARKOME UND KARZINOSARKOME DER MILCHDRUSE. (GE)
P G Van Ooyen W Misdorp
Zentralb Veterinarmed Reihe A 14(4)0328-334
Jun 1967 41.8 Z5
Carcinoma, Dogs, Mammary glands, Sarcoma.

12681-68
ACQUIRED PELGER-HUET ANOMALY IN CATTLE.
B I Osburn R L Glenn
Amer Vet Med Ass J 152(1):11-16 REF
01 Jan 1968 41.8 AM3
Cattle, Pelger-huet anomaly.
Abstract

12682-68
LOCAL IMMUNITY IN THE LACTATING MAMMARY GLAND FOLLOWING THE INFUSION OF STAPHYLOCOCCAL TOXOIDS.
P M Outteridge A K Lascelles
Res Vet Sci 8(3), 313-320 REF.
Jul 1967 41.8 R312
Lactation, Mammary glands, Sheep, Staphylococcus aureus.
Abstract

12683-68
SPONTANEOUS PYELONEPHRITIS IN DOGS. (GE)
L Pacbaly E Vivaldi M Belmar
Zentralb Veterinarmed Reihe A 14(4)0371-382 REF
Jun 1967 41.8 Z5
Dogs, Kidneys, Pyelonephritis.

12684-68
SUSCEPTIBILITY OF TISSUE CULTURE CELLS TO FOOT-AND-MOUTH DISEASE VIRUS; CONCENTRATION OF BOVINE SERUM IN CULTURE MEDIUM.
R E Patty E Dougherty
Amer J Vet Res 28(124)D647-651
May 1967 41.8 AM3A
Blood serum, Cattle, Cells, Culture media,
Foot-and-mouth disease, Tissue culture.

30 12685-68

12685-68
E-59 AND CA-51 STUDIES OF THE EFFECT OF PARTIAL-BODY X-IRRADIATION ON ERYTHROPOIESIS IN BEAGLES.
V T Penikas
Diss Abstr Sect B 28(3):1145B
Sep 1967 25055.049053
Chromium isotopes, Dogs, Erythrocytes, Iron isotopes, Radioactive tracers, Theses, X-rays.

12686-68
STUDY OF THE FILMS READY FOR USE IN THE CHROMATOGRAPHY OF AFLATOXINS.
J F Petit
Rev Elevage Med Vet Pays Trop (N.S.)20(2):359-364
1967 41.8 B3262
Aflatoxin, Chromatography.
Abstract

12687-68
EXPERIMENTS OF IMMUNIZATION AGAINST THE CLASSIC SWINE PEST WITH THE APPLICATION OF THE PRINCIPLE OF INTERFERENTIAL VACCINES. (FR.)
C Filet B Toma
Acad Vet France Bull 40(4):195-202
Apr 1967 41.9 R24
Hog cholera, Immunization, Swine, Vaccines.

12688-68
STREPTOCOCCUS AGALACTIE: A FREQUENT CAUSE OF HIGH BACTERIA COUNT IN MILK.
H S Powell L K Taul
Vet Med/small Anim Clin 62(7):689-692
Jul 1967 41.8 M69
Milk analysis, Streptococcus agalactiae.
Cause of mastitis in dairy cattle.
Abstract

12689-68
CONTRIBUTION TO THE THERAPY OF ACETONEMIA OF CATTLE. (GE)
R Prasse
Prakt Tierarzt 48(1)09-10
01 Jan 1967 41.8 PBB2
Cattle, Ketosis, Therapeutics.

12690-68
POST-MORTEM SEROLOGICAL DIAGNOSIS OF NEWCASTLE DISEASE. (FR)
J Ramisse E Rakotondramary
Rev Elevage Med Vet Pays Trop (N.S.)20(2), 205-212.
1967 41.8 B3262
Autopsies, Newcastle disease, Poultry, Serological tests.
Abstract

12691-68
STUDIES ON THE PATHOGENESIS OF MUSCLE NECROSIS IN PLASMOCID INTOXICATION.
R R Rao J B Henson
Res Vet Sci 8(3):369-374 REF
Jul 1967 41.8 R312
Necrosis, Rabbits.
Abstract

12692-68
TRANSMISSION OF TOXOPLASMOSIS THROUGH FOOD CONSUMPTION.
M A Rifaat T A Morsy
Arab Vet Med Ass J 26(3):349-357 Ref
Jul 1966 41.9 Ar1
Food consumption, Livestock, Toxoplasmosis.

12693-68
DERMATOPHILUS INFECTION.
D S Roberts
Vet Bull 37(8):513-521 Ref
Aug 1967 41.8 T752
Cattle, Dermatophilus, Drug therapy, Immunization, Sheep.

12694-68
INVESTIGATION INTO THE USEFULNESS OF THE NON-AGGLUTINOGENIC BRUCELLA AEORTUS ADJUVANT VACCINE DUPHAVAC N.A. IN THE CONTROL OF BOVINE BRUCELLOSIS.
J H G Boerink
Magyar Allatorv Lapja 80(25)0727-733 REF
24 Jun 1967 41.8 V644
Antibodies, Brucella abortus, Brucellosis, Cattle, Vaccines.

12695-68
EXPERIMENTAL FELINE INFECTIOUS ENTERITIS IN THE GERMFREE CAT.
M W Bohovsky
Diss Abstr Sect B 28(3):969B-
Sep 1967 25055.049053
Cats, Feline infectious enteritis, Germ-free life.

12696-68
INTERFERON PRODUCTION WITH STRAIN SF-4 OF PARAINFLUENZA-3 VIRUS.
B D Rosenquist B W Loan
Amer J Vet Res 28(124)0619-628 REF
May 1967 41.8 AM3A
Cattle, Interferon, Parainfluenza-3 virus.
For study mechanisms of interferon production in bovine host

12697-68
HEREDITY OF RETINAL DYSPLASIA IN REDLINGTON TERRIERS.
L F Rubin
Amer Vet Med Ass J 152(3):260-262
01 Feb 1968 41.8 AM3
Abnormalities, Dogs, Heredity, Retina.
Abstract

12698-68
STUDIES ON BLUETONGUE. V. DETECTION OF THE VIRUS IN INFECTED MATERIALS BY IMMUNOFLUORESCENCE.
G M Ruckerhauer D P Gray A Girard G L Bannister P Bonlanger
Can J Comp Med Vet Sci 31(7):175-181
Jul 1967 41.8 C162
Bluetongue virus, Cattle, Fluorescent antibody technic, Immunization, Sheep.
Summary in French
Abstract

12699-68
FLUORESCEIN-LABELED GOAT MILK ANTIBODIES: USE IN DETECTION OF MUMPS VIRUS IN TISSUE CULTURE.
S A Sattar C A Mitchell Lt Guerin
Can J Comp Med Vet Sci 31(10):265-267 REF
Oct 1967 41.8 C162
Fluorescein, Goats, Mumps virus, Tissue culture.
Abstract

12700-68
EXPERIMENTAL STREPTOCOCCUS AGALACTIAE MASTITIS IN CATTLE. ATTEMPTS TO SUPERIMPOSE THE ORGANISM IN LACTATING GLANDS HARBORING UNRELATED BACTERIAL INFECTIONS AND IN GLANDS WITH EXPERIMENTALLY INDUCED STERILE INFLAMMATION.
O W Schalm J Lasmanis E J Carroll
Amer J Vet Res 28(124)0685-695 REF
May 1967 41.8 AM3A
Bacteria, Cattle, Lactation, Mammary glands, Mastitis, Streptococcus agalactiae.

12701-68
EXPERIMENTAL PSEUDOMONAS AERUGINOSA MASTITIS IN CATTLE.
O W Schalm J Lasmanis E J Carroll
Amer J Vet Res 28(124)0697-707 REF
May 1967 41.8 AM3A
Cattle, Mastitis, Pseudomonas aeruginosa.

12702-68
STUDIES OF THE PATHOGENIC PROPERTIES OF A PORCINE ADENOVIRUS.
J A Shadduck
Diss Abstr Sect B 28(3.:969B-970)
Sep 1967 25055.049053
Encephalitis, Germ-free life, Swine adenovirus.

12703-68
SWINE ABSCESSES CAUSED BY LANCEFIELD'S GROUP E STREPTOCOCCI. III. APPLICATION OF A PRECIPITIN TEST IN SELECTED GROUPS OF MARKET PIGS.
R D Shuman R L Wood N Nord
Cornell Vet 57(3):356-363
Jul 1967 41.8 CB1
Abscesses, Precipitin test, Streptococcus bacterins, Swine.
Abstract

12704-68
SWINE ABSCESSES CAUSED BY LANCEFIELD'S GROUP E STREPTOCOCCI. IV. TEST OF TWO BACTERINS FOR IMMUNIZATION.
R D Shuman F L Wood
Cornell Vet 58(1):21-30
Jan 1968 41.8 CB1
Immunization, Streptococcus bacterins, Swine.
Abstract

12705-68
CHANGES IN BLOOD SERUM TRANSAMINASE ASSOCIATED WITH LUPINE AND LARKSPUR POISONING IN CATTLE.
J L Shupe L D Balls L F James
Cornell Vet 58(1):129-135 REF
Jan 1968 41.8 CB1

Aminotransferases, Blood serum, Cattle, Delphinium, Lupine, Poisoning.
Abstract

12706-68
THE EFFECT OF LOCO PLANT ON LIBIDO AND FERTILITY IN RAMS.
J L Shupe L F James K Hoffman W Binns
Cornell Vet 58(1):59-66
Jan 1968 41.8 C81
Astragalus, Fertility, Oxytropis, Poisoning, Rams.
Abstract

12707-68
OBSERVATIONS ON CROOKED CALF DISEASE.
J L Shupe L F James W Binns
Amer Vet Med Ass J 151(2):191-197
15 Jul 1967 41.8 AM3
Calves, Lupine, Poisoning.
Causes crooked calf disease.
Abstract

12708-68
LUPINE, A CAUSE OF CROOKED CALF DISEASE.
J L Shupe W Binns Lf James B F Keeler
Amer Vet Med Ass J 151(2):198-203, REF.
15 Jul 1967 41.8 AM3
Calves, Lupine, Poisoning.
Causes crooked calf disease
Abstract

12709-68
THE USE OF TISSUE CULTURE RINDERPEST VACCINE FOR EGYPTIAN CATTLE AND WATER BUFFALOES.
K V Singh C A Osman T I Baz
Cornell Vet 57(3):465-479 REF
Jul 1967 41.8 C81
Buffaloes, Cattle, Rinderpest, Tissue culture, Vaccines.
Abstract

12710-68
ACTIVE IMMUNITY AGAINST TRICHOSTRONGYLUS AXEI IN SHEEP AND RABBITS.
P K Sinha
Amer J Vet Res 28(124)0793-798 REF
May 1967 41.8 AM3A
Immunization, Rabbits, Sheep, Trichostrongylosis, Trichostrongylus axei.

12711-68
ANTIBODY AND CELLULAR RESPONSE IN LAMBS IMMUNIZED AGAINST TRICHOSTRONGYLUS AXEI.
P K Sinha
Amer J Vet Res 28(124)0799-808 REF
May 1967 41.8 AM3A
Antibodies, Cells, Immunization, Sheep, Trichostrongylosis, Trichostrongylus axei.

12712-68
IMMUNOFLUORESCENCE IN THE DIAGNOSIS OF BOVINE FETAL LEPTOSPIROSIS.
R E Smith I M Reynolds G W Clark
Cornell Vet 57(4):517-526
Oct 1967 41.8 C81
Cattle, Fluorescent antibody technic, Immunization, Leptospirosis.
Abstract

12713-68
THE DEVELOPMENT OF PETECHIAL HAEMORRHAGES ON THE UNDER-SURFACE OF THE TONGUE OF THE HORSE AND ITS RELATION TO INFECTION WITH THE VIRUS OF EQUINE INFECTIOUS ANAEMIA. (GE)
W Steck
Zentralb Veterinarmed Beihe A 14(4):348-365 REF
Jun 1967 41.8 Z5
Equine infectious anemia, Hemorrhage, Horses, Purpura, Tongue.
Abstract

12714-68
TESTING OF COARSE DISINFECTANTS AGAINST BACTERIA. (GE)
W Stellmacher H Wilkiés M Sonnitz M Schwebs
Arch Exp Veterinarmed 21(2):547-575 REF
May 1967 41.8 EX7
Antiseptics, Bacteria.
Abstract

12715-68
BLOAT IN CATTLE. XIII. EFFICACY OF MOLASSES-SALT BLOCKS CONTAINING POLOXALENE IN CONTROL OF ALFALFA BLOAT.
D A Stiles E E Bartley A B Erhart R M Meyer F W Boren
J Dairy Sci 50(9):1437-1443
Sep 1967 44.8 J822
Alfalfa, Bloat, Cattle, Molasses-salt blocks.
Abstract

12716-68
HEMATOLOGIC CHANGES AND CLINICAL SIGNS OF TRICHINOSIS IN PIGS.
A C Strafuss W J Zimmermann
Amer J Vet Res 28(124):833-838 REF
May 1967 41.8 AM3A
Hematology, Swine, Trichinella spiralis.

12717-68
INFECTIVITY OF ANAPLASMA MARGINALE IN BOVINE BLOOD AFTER PROLONGED FREEZING.
W A Summers
Amer J Vet Res 28(124):880-882
May 1967 41.8 AM3A
Anaplasma marginale, Blood, Cattle.

12718-68
SWINE MYCOPLASMA.
W P Switzer
Amer Vet Med Ass J 151(12):1656-1661
15 Dec 1967 41.8 AM3
Mycoplasma, Swine.

12719-68
FELINE INFECTIOUS ANEMIA RECOGNIZED IN FINLAND.
D Taylor M Sandholm M Valtonen J Tuomi
Nord Veterinaermed 19(6):277-284, REF.
Jun 1967 41.8 N813
Cats, Hemobartonellosis.
Abstract

12720-68
ANTIBIOTIC ANTI-TUMOR AGENTS AND METHOD OF PRODUCING SAME.
PATENT 3,366,540.
M D Tendler
Us Patent Office Offic Gaz 846(5):1571
30 Jan 1968 156.65 OF2
Antibiotics, Neoplasms, Patents.

12721-68
HYPOGLYCEMIA NEONATAL CALVES ASSOCIATED WITH ACUTE DIARRHEA.
B Tennant D Harrold M Reina-Guerra
Cornell Vet 58(1):136-146 REF
Jan 1968 41.8 C81
Cattle, Diarrhea, Hypoglycemia.
Abstract

12722-68
SCABIES IN SHEEP. INTERSTATE MOVEMENT.
Fed Regist 14(114):8519
14 Jun 1967 L1.451
Pest control, Scabies, Sheep.

12723-68
BRUCELLOSIS. DEFINITION OF OFFICIAL VACCINATE.
Fed Regist 32(118):8752
20 Jun 1967 L1.451
Brucellosis, Cattle, Immunization, Vaccines.

12724-68
FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. VERXITE.
Fed Regist 32(121):8962-8963
23 Jun 1967 L1.451
Feed additives, Hydrobiotite, Livestock, Poultry.
"Verxite; Correction." this correction of error in above appears in the same journal, 32(124):9160, 28 june 1967.

12725-68
EXISTENCE OF INFECTIOUS FELINE ANAEMIA (EPERYTHROZOONOSIS OF CAT) IN MADAGASCAR. (FR.)
G Uilenberg C Lapeire
Rev Elevage Med Vet Pays Trop (N.S.)20(2):355-357 REF
1967 41.8 R3262
Anemia, Cats, Eperythrozoonosis.
Abstract

12726-68
ISOLATION AND CHARACTERIZATION OF BOVINE ENTERIC VIRUSES.
M J Van Der Maaten R A Packer
Amer J Vet Res 28(124), 677-684. REF
May 1967 41.8 AM3A
Cattle, Culture media, Enteroviruses, Virus diseases (animals).

30 12727-68

12727-68
A STABLE ANTIGEN FOR THE TUBE AGGLUTINATION TEST IN CHRONIC SWINE ERYSIPELAS.
A Van Der Schaaf A Kramer-Zeeuw
Amer J Vet Res 29(1):205-207
Jan 1968 41.8 AM3A
Agglutination test, Antigens, Erysipelas bacterins.
Abstract

12728-68
MEANINGFUL ANIMAL MORBIDITY REPORTING.
G B Van Ness
Amer Vet Med Ass J 157(12):1828-1829
15 Dec 1967 41.8 AM3
Livestock diseases, Mortality.

12729-68
A SURVEY OF THE ALIMENTARY TRACT OF CATTLE FOR CLOSTRIDIUM PERFRINGENS.
H N Vance
Can J Comp Med Vet Sci 31(10):260-264
Oct 1967 41.8 C162
Cattle, Clostridium perfringens, Gastrointestinal system.
Abstract

12730-68
STUDY OF SHEEPPOX VIRUS SYNTHESIS BY FLUORESCENT ANTIBODY TECHNIQUE.
J D Vigario P P Ferraz
Amer J Vet Res 28(124):809-813 REF
May 1967 41.8 AM3A
Fluorescent antibody technic, Sheeppox virus.

12731-68
RATES OF HYDROCORTISONE AND CORTICOSTERONE SECRETION IN CALVES.
S C Whipp A F Weber E A Dzenik A L Good
Amer J Vet Res 28(124):671-675 REF
May 1967 41.8 AM3A
Animal physiology, Calves, Corticosterone, Hydrocortisone, Secretion.

12732-68
SUPPLYING AT LEAST ABOUT 4 PERCENT IRON AND A SWEETENING AGENT FOR THE PREVENTION OF IRON-DEFICIENCY ANEMIA IN BABY PIGS. PATENT 3,332,778.
M C Wilkening
Us Patent Office Offic Gaz 840(4):1266
25 Jul 1967 156.65 OP2
Anemia, Deficiency diseases, Iron, Patents, Sweetening agents, Swine.

12733-68
TOXOPLASMOSIS IN PIGS, AN EXPERIMENTAL STUDY OF ORAL INFECTION AND INFECTION THROUGH THE SKIN.
S G Wilson C Folkers B Kouwenhoven N M Perie
Vet Rec 81(13):313-317
23 Sep 1967 41.8 V641
Swine, Toxoplasmosis.
Abstract

12734-68
IMMUNITY RESPONSE FROM AN INACTIVATED INFECTIOUS BRONCHITIS VACCINE.
B W Winterfield
Avian Dis 11(3):446-451
Aug 1967 41.8 AV5
Immunization, Infectious bronchitis, Poultry, Vaccines.
Abstract

12735-68
THE EFFECT OF DOSE RATE ON THE ACUTE RADIATION SYNDROME IN THE BEAGLE, WITH SPECIAL CONSIDERATION FOR THE HEMATOPOIETIC SYSTEM.
K T Woodward
Diss Abstr Sect B 28(3):1152B-1153B
Sep 1967 Z5055.U49D53
Dogs, Dosage, Hematopoietic system, X-rays.

12736-68
THE ACTION OF MYCOPLASMA GALLISEPTICUM UPON CHICKEN, RABBIT, AND COW ERYTHROCYTES.
R Ziv M Perek S Razin
Avian Dis 11(3):370-377
Aug 1967 41.8 AV5
Cattle, Erythrocytes, Mycoplasma gallisepticum, Poultry, Rabbits.
Abstract

Arthropods

12738-68
ACYLSULFAMOYLPHENYL PHOSPHATE WARM-BLOODED ANIMAL SYSTEMIC INSECTICIDES. PATENT 3,341,409.
G Berkelhammer E Township P A Wagner
Us Patent Office Offic Gaz 842(2):672
12 Sep 1967 156.65 OP2
Acylsulfamoylphenyl phosphate, Animals, Chemical control (insects), Insecticides, Patents, Systemic insecticides.

12739-68
CONTROL OF THE LONE STAR TICK ON CATTLE.
R O Drummond T M Whetstone S E Ernst
J Econ Entomol 60(6):1735-1738
Dec 1967 421 J822
Amblyomma americanum, Cattle, Chemical control (insects), Coumaphos, Diazinon, Toxaphene.
Abstract

12740-68
INHIBITIVE EFFECT OF BACILLUS THURINGIENSIS ON THE DEVELOPMENT OF THE FACE FLY IN COW MANURE.
A A Rowe T H Cheng
J Econ Entomol 61(1):26-31 REF
Feb 1968 421 J822
Bacillus thuringiensis, Cattle, Feed additives, Insect physiology, Manures, Musca autumnalis, Thuricide.
Abstract

12741-68
HORN FLY AND FACE FLY CONTROL ON RANGE CATTLE WITH AERIAL APPLICATIONS OF ULTRA-LOW-VOLUME MALATHION SPRAYS.
B H Kantack W L Berndt E U Balsbaugh
J Econ Entomol 60(6):1766-1767
Dec 1967 421 J822
Aerial spraying, Cattle, Chemical control (insects), Haematobia irritans, Malathion, Musca autumnalis.

12742-68
A SURVEY OF SHEEP BOT FLY LARVA INFESTATIONS IN KENTUCKY.
P W Knapp C E Rogers
J Econ Entomol 61(1):23-25
Feb 1968 421 J822
Oestrus ovis, Sheep, Surveys.
Abstract

12743-68
SHEEP ECTOPARASITE CONTROL. I. INSECTICIDES AND APPLICATION METHODS FOR KEDS AND BITING LICE.
J G Matthysse
J Econ Entomol 60(6):1645-1650 REF
Dec 1967 421 J822
Bovicola ovis, Chemical control (insects), Coumaphos, Ddt, Diazinon, Dieldrin, Insecticide application, Malathion, Melophagus ovinus, Parasitism, Ronnel, Sheep.
Abstract

12744-68
CONTROLLING LICE AND CHORIOPTIC MANGE MITES ON DAIRY CATTLE.
J G Matthysse R F Pendleton A Padula G B Nielsen
J Econ Entomol 60(6):1615-1623 REF
Dec 1967 421 J822
Bovicola bovis, Cattle, Chemical control (insects), Ciodrin, Coumaphos, Diazinon, Haematopinus eurysternus, Linognathus vituli.
Abstract

12745-68
HERBICIDE-INSECTICIDE FORMULATIONS FOR CONTROL OF THE AMERICAN DOG TICK.
J A McKiel D A Dever J R Proctor M B Garvie
J Econ Entomol 60(6):1571-1572
Dec 1967 421 J822

Chemical control (insects), D, 2,4-, Ddt, Dermacentor variabilis, Herbicides, Insect vectors, Insecticides, Lindane, T, 2,4,5-.
Abstract

12746-68
FLUORESCENT DYES FOR MARKING AND RECOVERING FOWL TICKS IN POULTRY HOUSES TREATED WITH INSECTICIDES.
J G Medley E H Ahrens
J Econ Entomol 61(1):81-84
Feb 1968 421 J822
Argas persicus, Fluorescent dyes, Insecticides, Poultry houses.
Abstract

12747-68
METHOD FOR CONTROL OF ARTHROPODS. PATENT 3,356,568.
J Metivier M Sauli
Us Patent Office Offic Gaz 845(1):267
05 Dec 1967 156.65 OP2
Acaricides, Arthropoda, Chemical control (insects), Dimethyldithiophosphoric ester, 0,0-, Insect control, Insecticides, Patents.

12748-68
STUDY ON THE CATTLE TICKS IN GUADELOUPE AND MARTINIQUE. II. PATHOGENIC AGENTS TRANSMITTED BY TICKS. (FR.)
P C Morel
Rev Elevage Med Vet Pays Trop (N.S.)20(2):291-299
1967 41.8 R3262
Animal diseases, Cattle, Insect vectors, Ixodides.
Abstract

12749-68
ANIMAL SENTINELS IN A STATEWIDE ARTHROPOD-BORNE ENCEPHALITIS SURVEILLANCE PROGRAM.
J R Nichols W J Bigler
Amer Vet Med Ass J 151(12):1767-1771 REF
15 Dec 1967 41.8 AM3
Arboviruses, Arthropoda, Encephalitis, Horses, Poultry, Surveys, Wildlife.
Abstract

12750-68
NATURAL OCCURRENCE OF SCHISTOSOMA SPINDALE IN BANDICOTA BENGALENSIS IN BOMBAY TOGETHER WITH A NOTE ON THEIR POSSIBLE ROLE IN THE DISSEMINATION OF SCHISTOSOMIASIS SPINDALE IN DOMESTIC RUMINANTS.
S M Niphadkar S R Rao
Indian Vet. J. 44(7)0563-565 .
Jul 1967 41.8 IN2
Animal vectors, India, Rats, Ruminants, Schistosomiasis.
Abstract

12751-68
TREATMENT EXPERIMENTS WITH SYSTEMIC INSECTICIDES AGAINST THE LARVAE OF THE REINDEER GRUB FLY (OEDEMAGENA TARANDI L) AND THE REINDEER NOSTRIL FLY (CEPHENOMYIA TROMPE L).
M Nordkvist
Nord Veterinaermed 19(6):281-293, REF.
Jun 1967 41.8 N813
Reindeer, Systemic insecticides.
Abstract

12752-68
1967 INSECTICIDE RECOMMENDATIONS; CONTROL INSECTS IN AND AROUND POULTRY HOUSES.
J O Bowell
Va Polytech Inst Ext Circ 1033,2 P
Dec 1966 275.29 V81C
Chemical control (insects), Extension work, Insecticides, Poultry houses, Sanitation control (insects).

12753-68
EFFECTS OF BOVINE DIET ON OVIPOSITION, LARVAL DEVELOPMENT, AND PUPATION OF THE FACE FLY, MUSCA AUTUMNALIS DEGEER.
N S Knprah
Diss Abstr Sect B 28(3):751B
Sep 1967 Z5055.D49D53·
Animal nutrition, Cattle, Metamorphosis, Musca autumnalis, Ovulation.

12754-68
UNTERSUCHUNGEN UBER DAS VORKOMMEN VON AUGENWURMERN, THELAZIEN, BEIM RIND IM EINZUGSBEREICH DES SCHLACHTHOFES HANOVER. (INVESTIGATIONS ON THE OCCURRENCES OF EYEWORMS (THELAZIA SPP) IN CATTLE IN THE CATCHMENT AREA OF HANOVER SLAUGHTERHOUSE). (GE)
H P Schmidt
Hanover Tierarztl Hochsch Inang Diss 48,32 P.
1966 41.2 H19B
Cattle, Eyeworms, Slaughterhouses, Thelaziasis.

Parasites

12755-68
CHANGES IN THE NITROGEN BALANCE AND SERUM PROTEINS DURING AN ATTACK OF DISTEMPER AND COCCIDIOSIS IN THE DOG.
I R Balconi J E Braham R Bressani
Cornell Vet 57(3):427-438 REF
Jul 1967 41.8 C81
Canine distemper, Coccidiosis, Dogs, Nitrogen, Proteins.
Abstract

12756-68
OBSERVATIONS ON MUELLERIUS CAPILLARIS (MULLER, 1889) CAMERON, 1927. III. EXPERIMENTAL INFECTION OF SHEEP.
W P Beresford-Jones
Res Vet Sci 8(3), 272-279. REF.
Jul 1967 41.8 R312
Muellerius capillaris, Sheep, Verminous bronchitis.
Abstract

12757-68
TRIALS OF SIMULTANEOUS TREATMENT OF GASTRO ENTERITIC STRONGYLOSIS AND MONIEZIASIS OF CATTLE WITH A MIXTURE OF THIABENDAZOLE AND NICLOSAMIDE. (FR.)
P Daynes
Rev Elevage Med Vet Pays Trop (N.S.)20(2):273-278
1967 41.8 R3262
Anthelmintics, Cattle, Cestoda, Drug therapy, Enteritis, Monieziasis, Niclosamide, Strongylosis, Thiabendazole.
Abstract

12758-68
TETRAMERES SP. (NEMATODA: SPIRURIDAE) FOUND IN PIGEONS (COLUMBA LIVIA) IN KANSAS AND OKLAHOMA.
S A Ewing J L West A L Malle
Avian Dis 11(3):407-412 REF
Aug 1967 41.8 AV5
Nematoda, Pigeons.

12759-68
THE VECTORS OF STILESIA GLOBIPUNCTATA (RIVOLTA, 1874) OF SHEEP. (FR.)
M Graber J Gruvel
Rev Elevage Med Vet Pays Trop (N.S.)20(2):261-271 REF
1967 41.8 R3262
Cestoda, Oribatei, Parasites, Sheep, Stilesia globipunctata.
Abstract

12760-68
METHOD FOR CONTROLLING INSECTS AND WORMS WITH ORGANOPHOSPHORUS CYCLIC SULFONE COMPOSITIONS.
PATENT 3,341,407.
S B Greenbaum
Us Patent Office Offic Gaz 842(2):672
12 Sep 1967 156.65 OP2
Anthelmintics, Chemical control (insects), Insect control, Insecticides, Nematodes, Nematomorpha, Organophosphorus compounds, Patents, Platyhelminthes, Sulfur compounds.

12761-68
ANTHELMINTIC COMPOSITIONS AND METHODS OF USING SAME.
PATENT 3,360,433.
N Greenhalgh P Arnall
Us Patent Office Offic Gaz 845(4):1474
26 Dec 1967 156.65 OP2
Anthelmintics, Patents.

12762-68
AMPROLIUM FOR CONTROL OF EXPERIMENTAL COCCIDIOSIS IN LAMBS.
D M Hammond J E Kuta M L Miner
Cornell Vet 57(4):611-623 REF
Oct 1967 41.8 C81
Amprolium, Coccidiosis, Sheep.

12763-68
DIAGNOSIS, TREATMENT, AND PREVENTIVE THERAPY FOR HEARTWORMS.
J W Henderson
Amer Vet Med Ass J 151(12):1737-1739

30 12764-68

15 Dec 1967 41.8 AM3
Dirofilaria immitis, Dogs, Therapeutics.

12764-68
COCCIDIOSTATIC COMPOSITIONS AND METHODS OF USING SAME.
PATENT 3,351,525.
E Hodel
Us Patent Office Offic Gaz 844(1):265
07 Nov 1967 156.65 OF2
Coccidiostats, Patents.

12765-68
EQUINE PIROPLASMOSIS: INTRAERYTHROCYTIC DEVELOPMENT OF BABESIA CABALLI (NUTTALL) AND BABESIA EQUI (LAVERAN).
A A Holbrook A J Johnson P A Madden
Amer J Vet Res 29(2):297-303 REF
Feb 1968 41.8 AM3A
Horses, Piroplasmosis.
Abstract

12766-68
DETERMINATION OF SPECIES OF LARVAE OF INTESTINAL NEMATODES IN SHEEP. (CZ)
I Hulinska
Veterinarstv 17(9):409-411
1967 41.8 V6439
Intestines, Nematodes, Sheep.

12767-68
METHODS FOR CONTROLLING HELMINTHS IN ANIMALS USING CERTAIN ORGANOPHOSPHORUS COMPOUNDS. PATENT 3,345,260.
S T Ichikawa E Young Jr
Us Patent Office Offic Gaz 843(1):256
03 Oct 1967 156.65 OF2
Helminths, Livestock, Organophosphorus compounds, Patents.

12768-68
COMPOSITIONS AND METHODS FOR THE TREATMENT AND PREVENTION OF COCCIDIOSIS IN POULTRY. PATENT 3,337,401.
T Ishii Y Takamatsu S Yurugi K Masuda
Us Patent Office Offic Gaz 841(4):1278
22 Aug 1967 156.65 OF2
Coccidiostats, Patents, Poultry, Thiazolium salts.

12769-68
RESPONSE OF FOUR BREEDS OF CHICKENS AND ONE BREED OF TURKEYS TO EXPERIMENTAL HETERAKIS AND HISTOMONAS INFECTIONS.
E E Lund
Avian Dis 11(3):491-502 REF
Aug 1967 41.8 AV5
Blackhead, Cecal worms, Heterakis gallinarum, Poultry.
Abstract

12770-68
EQUINE PIROPLASMOSIS: INDIRECT FLUORESCENT ANTIBODY TEST FOR BABESIA CABALLI.
P A Madden A A Holbrook
Amer J Vet Res 29(1):117-120
Jan 1968 41.8 AM3A
Fluorescent antibody technic, Horses, Piroplasmosis.
Abstract

12771-68
ANTHELMINTIC COMPOSITIONS AND METHODS OF USING SAME.
PATENT 3,340,144.
H Martin P Schmidt A Wilhelm
Us Patent Office Offic Gaz 842(1):291
05 Sep 1967 156.65 OF2
Anthelmintics, Helminthiasis, Patents.

12772-68
CONTROL OF ENDOPARASITES OF ANIMALS. PATENT 3,344,021.
J J Menn F B Polckemer A Miller Jr
Us Patent Office Offic Gaz 842(4):1469
26 Sep 1967 156.65 OF2
Anthelmintics, Chlorinated hydrocarbons, Helminthiasis, Nematodes, Patents, Phosphorus compounds.

12773-68
3-IODO-4-HYDROXY-5-NITROBENZONITRILE AS AN ANTHELMINTIC.
PATENT 3,331,738.
J Rosenbaum H Wood J M S Lucas H Ongar
Us Patent Office Offic Gaz 840(3):923
18 Jul 1967 156.65 OF2
Anthelmintics, Helminthiasis, Patents.

12774-68
THERAPEUTIC TRIALS WITH MARETIN IN CALVES INFECTED WITH OSTERTAGIA AND COOPERIA.
R Rubin C P Hibler
Cornell Vet 57(3):337-343
Jul 1967 41.8 CB1
Bayer 9002, Calves, Cooperia, Maretin, Nematocides, Ostertagia, Therapeutics.
Abstract

12775-68
LARVAL DISTRIBUTION AND HISTOPATHOLOGY OF EXPERIMENTAL STRONGYLOIDES RANSOMI INFECTION IN YOUNG SWINE.
W M Stone C F Simpson
Can J Comp Med Vet Sci 31(8):197-202
Aug 1967 41.8 C162
Histology, Strongyloides ransomi, Swine.
Abstract

40 COMMODITY PROTECTION

Storage Diseases

12776-68
A STORAGE DECAY OF CROWNVETCH (CORONILLA VARIAL "CROWNS" CAUSED BY FUSARIUM ROSEUM AND ITS CONTROL BY FUNGICIDE DIP TREATMENTS.
H Cole G W McKee
Plant Dis Rep 51(10):820-822
Oct 1967 1.9 P69P
Captan, Chemical control (plant diseases), Crownvetch coronilla, Fungicides, Fungus diseases (plants), Fusarium roseum, Maneb, Pesticide application, Storage diseases, Thiram.

Arthropods

12777-68
NOTE ON A LABORATORY SAMPLING PROCEDURE FOR DETERMINING APHIDS IN HOPS.
P M Brickey W V Eisenberg
Ass Offic Anal Chem J 50(3):520-521
Jun 1967 381 AS7
Aphididae, Flotation, Food contamination, Hops, Sampling (statistics).

12778-68
DETECTION OF LEAF MINERS IN CANNED SPINACH AND TURNIP GREENS.
R F Brown
Ass Offic Anal Chem J 50(3):515-518
Jun 1967 381 AS7
Aphididae, Arthropoda, Flotation, Food contamination, Pegomya hyoscyami, Spinach, Turnip greens.
Abstract

12779-68
EXTRANEOUS MATERIALS IN MUSHROOMS.
R F Brown
Ass Offic Anal Chem J 50(3):514-515
Jun 1967 381 AS7
Food contamination, Maggots, Micrometers, Mushrooms.
Abstract:
studies were continued on the official, first action method for extraction and microscopic examination of maggots in canned mushroom, 36.085(a).

12780-68
RESPIRATION OF THE CONFUSED FLOUR BEETLE IN FIVE ATMOSPHERES OF VARYING CO2:O2 RATIOS.
S D Carlson
J Econ Entomol 61(1):94-96
Feb 1968 421 J822
Atmosphere, Carbon dioxide, Insect respiration, Oxygen, Tribolium confusum.
Abstract

12781-68
RESPIRATION OF CONFUSED FLOUR BEETLE ADULTS IN CO2 OR N2 AND AFTER SUBLETHAL FUMIGATION.
S D Carlson
J Econ Entomol 61(1):125-131 BEF
Feb 1968 421 J822
Atmosphere, Carbon dioxide, Carbon disulfide, Carbon tetrachloride, Fumigation, Insect respiration, Nitrogen, Tribolium confusum.
CCl4:CS2 80:20 mixture.
Abstract

12782-68
GOVERNMENT PEST INFESTATION LABORATORY (STORED PRODUCTS AND HOUSEHOLD PESTS). ANNUAL REPORT, 1966.
Denmark Stat Skadedyrlab Arsberet 84 P.
1967 423.92 D41
Diptera, Farms, Grain, Household pests, Insect pests, Insecticide resistant insects, Pest control, Rodents, Stored products.
English and Danish texts

12783-68
NEEM SEED AS A PROTECTANT AGAINST BRUCHID CALLOSOBRUCHUS MACULATUS (FABRICIUS) INFESTING SOME LEGUMINOUS SEEDS.
M G Jotwani P Sircar
Indian J Entomol 29(1):21-24
Mar 1967 420 IN23
Azadirachta indica, Callosobruchus maculatus, Insect repellents, Legumes, Seeds, Stored products.
Abstract.

12784-68
A TRAP FOR THE DETECTION AND RECOVERY OF INSECTS IN STORED GRAIN.
S R Loschiavo J M Atkinson
Can Entomol 99(11):1160-1163
Nov 1967 421 C16
Grain, Insect traps, Sampling (statistics), Storage.
Abstract

12785-68
SOME INSECTICIDAL TRIALS FOR THE PROTECTION OF TIL SEEDS IN STORAGE.
P B Mookherjee B N Bose
Indian J Entomol 29(1):103-104
Mar 1967 420 IN23
Ddt, Dieldrin, Endrin, Insecticides, Lindane, Pyrethrum, Seed germination, Sesame, Stored products, Tribolium castaneum.

12786-68
PESTS OF STORED PRODUCTS. SB937 .M8.
J W Munro
234 P. HUTCHINSON, LONDON
1966
Insect control, Insect pests, Legislation, Mites, Stored products.

12787-68
STUDIES ON THE EFFECT OF AIRTIGHTNESS ON THE DEVELOPMENT OF TRIBOLIUM CASTANEUM HERBST (COLEOPTERA: TENEBRIONIDAE) IN WHEAT AND WHEAT FLOUR.
B P Sinha P B Mookherjee
Indian J Entomol 29(1):79-83
Mar 1967 420 IN23
Air, Flour, Insect physiology, Storage, Tribolium castaneum, Wheat.
Abstract

12788-68
CLIMATE AND POTENTIAL RANGE OF DISTRIBUTION OF STORED-PRODUCT MITES IN JAPAN.
R N Sinha
J Econ Entomol 61(1):70-75,MAP REF
Feb 1968 421 J822
Climate, Insect pests, Mites, Stored products, Temperature, Zoogeography.
Abstract

12789-68
OUTBREAKS AND NEW RECORDS: UNITED STATES. ORIENTAL WOOD BORER, A NEW RECORD.
Pao Plant Protect Bull 15(1):21-23
Feb 1967 421 P692
Forest insects, Lumber, Lumberyards, Quercus, Sawmills, Swietenia, United States, Wood borers.

12790-68
A FURTHER PEST SPECIES OF SILVERFISH (THYSANURA) FROM AUSTRALIA, WITH A KEY TO THE DOMESTIC SPECIES.
J A L Watson C S Li
Entomol Soc Queensland J 6(2):89-90
31 Dec 1967 420 EN823
Acrotelsa collaris, Household insects, Thysanura.
Abstract

12791-68
DETERMINATION OF APHIDS IN HOPS.
R G Wright
Ass Offic Anal Chem J 50(3):499-501
Jun 1967 381 AS7
Aphididae, Flotation, Food contamination, Hops, Iodine.
Abstract

Microbial Contamination

12792-68
SALMONELLA.
D W Bruner
Cornell Vet 58(1):75-81
Jan 1968 41.8 C81
Food contamination, Salmonella.

12793-68
DILUTION METHOD FOR MOLD COUNT OF CATSUP.
J W Wildman
Ass Offic Anal Chem J 50(3):509-513
Jun 1967 381 AS7
Food contamination, Ketchup, Molds, Statistical analysis, Tomatoes.
Abstract

12794-68
A METHOD FOR STUDYING MICROBIAL PENETRATION THROUGH THE OUTER STRUCTURES OF THE AVIAN EGG.
J E Williams A D Whittemore
Avian Dis 11(3):467-490 REF
Aug 1967 41.8 AV5
Eggs, Food contamination, Microorganisms, Pseudomonas.
Abstract

50 ENVIRONMENTAL CONTAMINATION

12795-68
IDENTIFICATION OF AIR POLLUTION DAMAGE TO AGRICULTURAL CROPS.
E Darley C W Nichols J T Middleton
Calif Dept Agr Bull 55(1):11-19
1966 2 C12M
Air pollution, Crop losses, Gases.

12796-68
ULTRASONIC EXTRACTION OF INSECTICIDES. I. COMPARISON OF EXTRACTION METHODS AND SOLVENT SYSTEMS OVER THREE TIME INTERVALS.
R E Johnsen R I Starr
J Econ Entomol 60(6):1679-1682
Dec 1967 421 J822
Dieldrin, Heptachlor epoxide, Soils.
Abstract

12797-68
EFFECT OF DETERGENTS AND INORGANIC SALTS IN WATER ON THE PERSISTENCE AND MOVEMENT OF INSECTICIDES IN SOILS.
E P Lichtenstein T W Fuhremann K R Schulz R F Skrentny
J Econ Entomol 60(6):1714-1721 REF
Dec 1967 421 J822
Aldrin, Detergents, Insecticide residues, Parathion, Sodium chloride, Soils, Water.
Abstract

55 RESIDUES

12798-68
RESIDUES IN FOODS. (CHLORINATED PESTICIDES).
Ass Offic Anal Chem J 49(1):222-229
Feb 1966 381 AS7
Chlorinated hydrocarbons, Dairy products, Food contamination, Fruit, Insecticide residues, Vegetables.

12799-68
THIN-LAYER CHROMATOGRAPHIC DETERMINATION OF CARBARYL (SEVIN) IN SOME FOODS.
W R Benson
Ass Offic Anal Chem J 48(4)0736-738
Aug 1965 381 AS7
Carbamates, Carbaryl, Chromatography, Food contamination, Fruit, Insecticide residues, Vegetables.

12800-68
DETERMINATION OF 3-AMINO-1,2,4-TRIAZOLE IN CROPS.
J Burke
Ass Offic Anal Chem J 44(2):196-199
May 1961 381 AS7
Amitrole, Canned food, Food contamination, Frozen food, Grain, Herbicide residues, Meal, Vegetables.
Journal title, 1961: Journal of the Association of Official Agricultural Chemists.

12801-68
REPORT ON CHLORINATED INSECTICIDES AND MITICIDES.
J A Burke
Ass Offic Anal Chem J 50(3):575-577
Jun 1967 381 AS7
Acaricides, Chlorinated hydrocarbons, Insecticides, Pesticide residues.
Abstract

12802-68
DETERMINATION OF BIPHENYL IN CITRUS FRUITS BY THIN LAYER CHROMATOGRAPHY AND ULTRAVIOLET SPECTROPHOTOMETRY.
P E Corneliussen
Ass Offic Anal Chem J 50(4):934-938
Aug 1967 381 AS7
Biphenyl, Chromatography, Citrus, Fungicides, Pesticide residues, Spectrophotometry.

12803-68
PESTICIDES AND THE SOIL FAUNA; EFFECTS OF ALDRIN AND DDT IN AN ABAELE FIELD.
C A Edwards E B Dennis D W Empson
Ann Appl Biol 60(1):11-22 REF
Aug 1967 442.8 AN72
Aldrin, Ddt, Fumigants, Insecticide residues, Soil fauna, Soils.

12804-68
SPECTROPHOTOMETRIC DETERMINATION OF DITHIOCARBAMATE RESIDUES ON FOOD CROPS.
Anal Chem 36(1):221-224, REF.
Jan 1964 381 J825A
Food contamination, Fruit, Fungicides, Pesticide residues, Spectrophotometry, Thiocarbamates, Vegetables.

12805-68
RETENTION OF DDT AND DDE BY THE BOVINE.
G F Fries E A Kane
J Dairy Sci 50(9):1512-1514 REF
Sep 1967 44.8 J822
Cattle, Ddt, Insecticide residues, DDE.
Abstract

12806-68
EFFECT OF DIFFERENT SOIL TILLAGE METHODS ON RESIDUAL AFTER-EFFECT OF SIMAZINE . VLIYANIE RAZLICHNYKH SPOSOBOV OSNOVNOI OBRABOTKI POCHVY NA POSLEDEISTVIE SIMAZINA. (RUS)
Kh Kh Khabibrakhmanov
Zemledelie 5(9):62-63
Sep 1967 20 Z44
Insecticide residues, Simazine, Soils, Tillage.

12807-68
FIELD WEATHERING OF TOXAPHENE AND CHLORDANE.
A K Klein J E Link
Ass Offic Anal Chem J 50(3):586-591
Jun 1967 381 AS7
Chlordane, Ddt, Insecticide residues, Kale, Rainfall, Toxaphene, Vegetables, Weather.
Abstract

12808-68
DETERMINATION OF NICOTINE RESIDUES ON FOODS.
R J Martin
Ass Offic Anal Chem J 50(4):939-940
Aug 1967 381 AS7
Chromatography, Food, Insecticide residues, Mustard greens, Nicotine.

12809-68
EFFECT OF THYROPROTEIN AND A LOW-ENERGY RATION ON REMOVAL OF DDT FROM LACTATING DAIRY COWS.
D D Miller
J Dairy Sci 50(9):1444-1447 REF
Sep 1967 44.8 J822
Dairy cattle, Ddt, Insecticide residues, Lactation, Thyroprotein.
Abstract

12810-68
PROCEDURE FOR NINE ORGANOTHIOPHOSPHATE PESTICIDE RESIDUES ON FRUITS AND VEGETABLES, USING MICROCOULOMETRIC GAS CHROMATOGRAPHY.
R C Nelson
Ass Offic Anal Chem J 50(4):922-926
Aug 1967 381 AS7
Carbophenothion, Chromatography, Epn, Ethion, Fruit, Insecticide residues, Malathion, Organophosphorus compounds, Parathion, Phorate, Thiophosphates, Vegetables.

12811-68
DIMETHOATE RESIDUES IN EGGS AND TISSUES OF LAYING HENS.
M Sherman M T Y Chang
J Econ Entomol 60(6):1552-1554
Dec 1967 421 J822
Dimethoate, Eggs, Insecticide residues, Poultry, Tissues.
Abstract

12812-68
REPORT ON FUNGICIDES, FUMIGANTS, AND MISCELLANEOUS.
R W Storherr
Ass Offic Anal Chem J 50(4):933-934
Aug 1967 381 AS7
Fumigants, Fungicides.

12813-68
MICRODETERMINATION OF PHOSPHORUS.
T Y Toribara B Warner
Anal Chem 28(11):1756-1758
29 Oct 1956 381 J825A
Arsenates, Blood, Blood plasma, Blood serum, Body fluids, Phosphorus, Spectrophotometry, Urine.
Journal title, 1956: Journal of the Association of Official Agricultural Chemists.

12814-68
AGRICULTURAL PESTICIDE CHEMICALS HANDBOOK. SB951.A5.
1 V. COLUMBIA, MISSOURI
1966
Handbooks, Pesticide application, Pesticides.

60 TOXICOLOGY

12815-68
VERSUCHE ZUR BEEINFLUSSUNG VON ACETYLCHOLIN, NEGUVON UND ASUNTOL DURCH ATROPIN (EXPERIMENTS FOR INFLUENCING ACETYLCHOLINE, NEGUVON AND ASUNTOL WITH ATROPINE). (GE)
R Budden
Hanover Tierarztl Hochsch Inang Diss 25,68P. REF
1966 41.2 H198
Acetylcholine, Atropine, Coumaphos, Dogs, Mice, Toxicity, Trichlorfon.

12816-68
RESPONSE OF PINEAPPLE ORANGE TREES TO SELECTED PETROLEUM OIL FRACTIONS.
H A Dean C E Hoelscher
J Econ Entomol 60(6):1668-1672 REF
Dec 1967 421 J822
Diaspididae, Leaf drop (taxus), Oranges, Petroleum, Pineapples.
Abstract

12817-68
TOXICITY OF DDT, DIELDRIN, MALATHION AND FENTHION TO RHODNIUS PROLIXUS IN THE LABORATORY.
I Pox I G Bayona H I Orozco
World Health Organ Bull 35(6):974-976
1966 449.9 W892B
Ddt, Dieldrin, Fenthion, Malathion, Rhodnius prolixus.

12818-68
UNTERSUCHUNGEN UBER DIE VERTRAGLICHKEIT DER COCCIDIOSTATICA AMPROLIUM UND ZOALEN. (INVESTIGATIONS ON THE TOLERANCE OF COCCIDIOSTATS AMPROLIUM AND ZOALENE.). (GE)
A Fugner
Hanover Tierarztl Hochsch Inang Diss 29,89 P.
1966 41.2 H198
Amprolium, Coccidiostats, Laboratory animals, Zoalene.
Experiment on laboratory animals.

12819-68
ETHYLENE GLYCOL POISONING IN DOGS AND CATS.
L Jonsson S Rubarth
Nord Veterinaermed 19(6):265-276, REF.
Jun 1967 41.8 N813
Cats, Dogs, Ethylene glycol, Poisoning.
Abstract

12820-68
STATISTICAL APPLICATIONS TO REPELLENCY ASSAY. (ABSTRACT).
P Kashin M L Kardatzke
Calif Mosquito Contr Ass Proc Pap 35:121-122
1967 428 C763
Biological assay, Culicidae, Insect repellents, Programming (computers), Statistical analysis.

12821-68
CHEMICAL CONTROL OF REPRODUCTION IN CONFINED POPULATIONS OF PIGEONS (COLUMEA LIVIA).
R G McLean
Diss Abstr Sect B 28(3):1277B
Sep 1967 Z5055.U49D53
Apholate, Bird control, Chemical control (pests), Chemosterilants, Pigeons.

12822-68
DIAGNOSIS AND TREATMENT OF ADVERSE REACTIONS IN CATTLE TREATED FOR GRUBS WITH A SYSTEMIC INSECTICIDE.
D L Nelson A D Allen J O Mozier R G White
Vet Med/small Anim Clin 62(7):683-684
Jul 1967 41.8 M69
Cattle, Grubs, Insecticides, Poisoning, Toxicology.
Abstract

12823-68
A SIMPLE LABORATORY METHOD FOR TESTING THE SUSCEPTIBILITY OF LARVAE OF SIMULIUM NEAVEI COMPLEX TO INSECTICIDES.
J N Raybould
World Health Organ Bull 35(6):887-892, REF.
1966 449.9 W892B
Africa, Ddt, Simulium neavei.

12824-68
HEMIC CONCENTRATIONS OF OXIMES GIVEN INTRAVENOUSLY TO CATTLE.
P C Wright R L Younger B N Gilbert J C Biner
Amer J Vet Res 29(1):39-45
Jan 1968 41.8 AM3A
Antidotes, Cattle, Organophosphorus compounds, Oximes, Poisoning.
Abstract

65 PLANT PHYSIOLOGY AND BIOCHEMISTRY

12825-68
COMPOSITION AND METHOD FOR STIMULATING SEED GERMINATION AND PLANT GROWTHS. PATENT 3,331,678.
C C Chappelow Jr T J Byerley
Us Patent Office Offic Gaz 840(3):909
18 Jul 1967 156.65 OF2
Patents, Plant regulators, Seed germination.

12826-68
TRANSLOCATION OF TRITIUM-LABELLED GIBBERELLIC ACID IN PEA STEM SEGMENTS AND POTATO TUBER CYLINDERS.
M A Clor
Nature 214(5094):1263-1264
17 Jun 1967 472 N21
Gibberellic acid, Peas, Plant translocation, Potatoes, Radioactive tracers, Tritium.

12827-68
THE EFFECT OF GROWTH RETARDING AND GROWTH PROMOTING SUBSTANCES ON FLOWER BUD FORMATION IN CULTIVARS OF THE APPLE, MALUS SYLVESTRIS, MILL.
W J Greenhalgh
Diss Abstr Sect B 28(3):756B
Sep 1967 Z5055.U49D53
Apples, Crop varieties, Plant budding, Plant growth inhibitors, Plant regulators.

12828-68
DIE PROPANIDID, EPONTOL WZ, NARKOSE BEIM HUND. (PROPANIDID (EPONTOL WZ) NARCOSIS OF DOG). (E)
J Harting
Hanover Tierarztl Hochsch Inang Diss 32,46 P. REF
1966 41.2 H198
Anesthesia, Dogs, Narcosis.

12829-68
METHOD OF STIMULATING PLANT GROWTH. PATENT 3,361,555.
R J Herschler
Us Patent Office Offic Gaz 846(1):218
02 Jan 1968 156.65 OF2
Dimethyl sulfoxide, Patents, Plant regulators.

12830-68
PLANT DEFOLIATION PROCESS AND COMPOSITION. PATENT 3,342,582.
H Iserson H Q Smith
Us Patent Office Offic Gaz 842(3):1047
19 Sep 1967 156.65 OF2
Patents.

12831-68
METHOD OF PROMOTING MATURATION OF COTTON PLANTS. PATENT 3,352,660.
P H Parham
Us Patent Office Offic Gaz 844(2):617
14 Nov 1967 156.65 OF2
Cotton, Patents, Plant regulators.

12832-68
EFFECT OF BETA-INDOLYLACETIC ACID ON THE GROWTH AND THE AUXIN CATABOLISM OF LACTOBACILLUS BULGARICUS.
P E Pilet R Blank
Nature 217(5125):285-287, REF.
20 Jan 1968 472 N21
Indoleacetic acid, Plant regulators.

12833-68
BROMOFYRIDAZONES AND PROCESS FOR REGULATING PLANT GROWTH. PATENT 3,323,892.
F Reicheneder K Dury A Fischer
Us Patent Office Offic Gaz 839(1):245
06 Jan 1967 156.65 OF2
Patents, Plant regulators.

12834-68
METHOD FOR REGULATING GROWTH OF PLANTS. PATENT 3,326,659.
H Schwartz
Os Patent Office Offic Gaz 839(3):1092
20 Jun 1967 156.65 OF2
Anilides, Patents, Plant regulators.

12835-68
METHOD OF REGULATING GROWTH OF PLANTS. PATENT 3,326,662.
T Toyosato M Ochiai H Hagimoto H Tarmura T Kamikado
Us Patent Office Offic Gaz 839(3):1092
20 Jun 1967 156.65 OF2
Patents, Plant regulators, Pyrazoles.

12836-68
METHOD OF TOBACCO SUCKER CONTROL. PATENT 3,340,040.
T C Tso
Us Patent Office Offic Gaz 842(1):268
05 Sep 1967 156.65 OF2
Fatty acids, Patents, Plant growth inhibitors, Pruning, Tobacco.

12837-68
CHANGES IN COMPOSITION OF POTATO TUBERS FOLLOWING APPLICATIONS OF DEFOLIANTS.
P J Van Pottelsberghe
Diss Abstr Sect B 28(3):933B
Sep 1967 Z5055.U49D53
Defoliants, Paraquat, Potatoes, Sodium arsenite.

12838-68
METHOD OF DESUCKERING TOBACCO PLANTS WITH AZO-, HYDRAZO-, AND AZOXY-BENZENES. PATENT 3,361,553.
J Van Overbeek
Us Patent Office Offic Gaz 846(1):218
02 Jan 1968 156.65 OF2
Hydrazobenzenes, Patents, Plant growth inhibitors, Tobacco.

12839-68
DEFOLIATION PROCESS EMPLOYING 3-AMINO-3-CARBOXYPROPYL METHYL SULFOXIMINE HYDROGEN SULFATE. PATENT 3,323,895.
R L Walworth
Us Patent Office Offic Gaz 839(1):245
06 Jun 1967 156.65 OF2
Cotton, Defoliants, Patents.

70 CHEMISTRY

12840-68
INSECTICIDAL COMPOSITIONS CONTAINING CARBAMATES OF 5- AND 6-MEMBERED HETERO-SULFUR COMPOUNDS AND METHOD OF CONTROLLING INSECTS WITH SAME. PATENT 3,338,782.
R W Addor
Us Patent Office Offic Gaz 841(5):1692
29 Aug 1967 156.65 OF2
Carbamates, Chemical control (insects), Insect control, Insecticides, Patents, Sulfur compounds.

12841-68
HERBICIDAL AND INSECTICIDAL COMPOSITION. PATENT 3,348,940.
R W Addor
Us Patent Office Offic Gaz 843(4):1428
24 Oct 1967 156.65 OF2
Chemical control (insects), Chemical control (weeds), Herbicides, Insecticides, Patents.

12842-68
ANTIBIOTIC ARMENTOMYCIN AND A PROCESS FOR PRODUCING THE SAME. PATENT 3,342,681.
A D Argoudelis R E Herr D J Mason
Us Patent Office Offic Gaz 842(3):1070
19 Sep 1967 156.65 OF2
Antibiotics, Armentomycin, Bactericides, Patents, Streptomyces armentosus.

12843-68
ANTIBIOTIC ASPERLIN AND PROCESS FOR PRODUCING USING ASPERGILLUS NIDULANS. PATENT 3,366,541.
A D Argoudelis J H Coats
Us Patent Office Offic Gaz 846(5):1571
30 Jan 1968 156.65 OE2
Antibiotics, Antiseptics, Aspergillus nidulans, Asperlin, Bactericides, Patents.

12844-68
ALKYD RESINS WITH HERBICIDAL PROPERTIES. PATENT 3,343,941.
E Baltazzi
Us Patent Office Offic Gaz 842(4):1452
26 Sep 1967 156.65 OF2
Alkyd resins, Chemical control (weeds), Halogenated hydrocarbons, Herbicides, Patents.

12845-68
HALOGENATED AROMATIC PESTICIDAL COMPOSITIONS FOR CONTROLLING FUNGI, BACTERIA AND NEMATODES. PATENT 3,331,735.
R D Battershell H Bluestone
Us Patent Office Offic Gaz 840(3):923
18 Jul 1967 156.65 OF2
Bactericides, Chemical control (plant diseases), Fungicides, Isophthalonitrile, halogenated, Nematocides, Patents, Plant nematodes.

12846-68
ACETYL SUBSTITUTED PHENOXYACETAMIDES AND THEIR USE AS HERBICIDES. PATENT 3,371,106.
J P Berliner S E Richter
Us Patent Office Offic Gaz 847(4):1131
27 Feb 1968 156.65 OF2
Chemical control (weeds), Herbicides, Patents, Phenoxyacetamides, Soils.

12847-68
RIFAMYCIN TYPE ANTIBIOTIC COMPOUNDS. PATENT 3,338,888.
H Bickel I Euresz C G Gallo F Kradolfer W Kump P Sensi
Us Patent Office Offic Gaz 841(5):1718
29 Aug 1967 156.65 OF2
Antibiotics, Patents.

12848-68
COLLABORATIVE STUDY OF A TITRIMETRIC METHOD FOR THE ASSAY OF AMITROLE FORMULATIONS.
J R Bishop
Ass Offic Anal Chem J 50(3):568-572
Jun 1967 381 AS7
Amitrole, Assay, Pesticides, Volumetric analysis.
Abstract

12849-68
PROGRAMMED TEMPERATURE GAS CHROMATOGRAPHY OF PESTICIDES, USING ELECTRON CAPTURE AND THERMIONIC DETECTORS.
D C Bostwick L Giuffrida
Ass Offic Anal Chem J 50(3):577-581
Jun 1967 381 AS7
Chromatography, Electron capture, Pesticide residues.
Abstract

12850-68
ETHERS USEFUL AS MOLLUSCACIDES AND PISCICIDES.
PATENT 3,349,102.
C B C Boyce
Us Patent Office Offic Gaz 843(4):1465
24 Oct 1967 156.65 OF2
Ethers, Molluscacides, Patents, Piscicides.

12851-68
RATE CONSTANTS OF HYDRATED ELECTRON REACTIONS WITH PEPTIDES AND PROTEINS.
R Braams
Radiat Res 31 (1): 8-26 REF
May 1967 334.8 R11
Amino acids, Electrons, Hydrated electrons, Molecules, Peptides, Proteins, Radiation.

12852-68
HERBICIDAL COMPOSITIONS AND PROCESS. PATENT 3,342,585.
D A Brown R D Hart
Us Patent Office Offic Gaz 842(3):1048
19 Sep 1967 156.65 OE2
Chemical control (weeds), Dichlorophenyl)-cyclopropane carboxamide, N-(3',4'-, Herbicides, Patents.

12853-68
HERBICIDAL BENZIMIDAZOLE.
K-H Buchel
Us Patent Office Offic Gaz 847(2):546
13 Feb 1968 156.65 OF2
Herbicides, Methylthio-5,6-dichlorobenzimidazole, 2-.

12854-68
BIOASSAY OF FIELD TREATED SOILS TO DETERMINE BIOACTIVITY AND MOVEMENT OF INSECTICIDES.
C C Burkhardt M L Fairchild
J Econ Entomol 60(6):1602-1610 REF
Dec 1967 421 J822
Acheta domesticus, Aldrin, Biological assay, Diazinon, Heptachlor, Insecticide application, Parathion, Soils.
Abstract

12855-68
AGRICULTURAL MULCH AND HERBICIDAL COMPOSITION AND METHOD.
PATENT 3,341,318.
J E Chilton
Us Patent Office Offic Gaz 842(2):652
12 Sep 1967 156.65 OF2
Carbon black, Chemical control (weeds), Herbicides, Lignosulfonic acids, Mulches, Patents.

12856-68
ALKYLPHOSPHONOTHIOATES. PATENT 3,326,749.
J P Chupp
Us Patent Office Offic Gaz 839(3):1111
20 Jun 1967 156.65 OF2
Alkylphosphonothioates, Chemical control (insects), Insecticides, Patents.

12857-68
DESTROYING UNDESIRED VEGETATION WITH HALOBENZYLCARBAMATES.
PATENT 3,328,154.
J J D'Amico
Us Patent Office Offic Gaz 839(4):1530
27 Jun 1967 156.65 OF2
Chemical control (weeds), Halobenzylcarbamates, Herbicides, Patents.

12858-68
CONTROLLING VEGETATION WITH AZABICYCLONONANECARBOTHIOLATES.
PATENT 3,343,942.
J J D'Amico
Us Patent Office Offic Gaz 842(4):1452
26 Sep 1967 156.65 OF2
Chemical control (weeds), Herbicides, Patents.

12859-68
PESTICIDAL COMPOUNDS AND THEIR USE. PATENT 3,371,107.
J F De Gaetano
Us Patent Office Offic Gaz 847(4):1131

27 Feb 1968 156.65 OF2
Chemical control (weeds),
Cyanoisopropyl 2,6-dichlorobenzoate, alpha-, Herbicides,
Patents, Pesticides.

12860-68
HERBICIDAL CLAY FORMULATION. PATENT 3,362,810.
J M Deming
Us Patent Office Offic Gaz 846(2):557
09 Jan 1968 156.65 OF2
Chemical control (weeds), Clay minerals, Herbicides, Patents.

12861-68
METHOD FOR COMBATING MICROORGANISMS. PATENT 3,345,257.
D Duerr R Aehi L Ebner
Us Patent Office Offic Gaz 843(1):255
03 Oct 1967 156.65 OF2
Microorganisms, Patents, Pesticides.

12862-6B
NOVEL INSECTICIDAL CARBAMATE-PROPARGYLARYL ETHER
COMPOSITIONS. PATENT 3,362,871.
J Pellig A I Rachlin
Us Patent Office Offic Gaz 846(2):568
09 Jan 1968 156.65 OF2
Insecticides, Patents, Trihalophenyl-2-propynyl ether.

12863-68
PYRIDAZONE DERIVATIVES AND THEIR USE AS PLANT GROWTH
REGULANTS. PATENT 3,336,130.
A Fischer F Reicheneder K Dury
Us Patent Office Offic Gaz 841(3):902
15 Aug 1967 156.65 OF2
Chemical control (weeds), Herbicides, Patents,
Plant regulators, Pyridazones.

12864-68
ANTI-MICROBIAL THERAPEUTICS CONSISTING OF NITROFURANTOIN,
TETRACYCLINE, AND D-GLUCOSAMINE. PATENT 3,328,258.
L Fontaine
Us Patent Office Offic Gaz 839(4):1550
27 Jun 1967 156.65 OF2
Bactericides, Drugs, Escherichia coli, Glucosamine, D-,
Infectious diseases, Nitrofurantoins, Patents,
Streptococcus pyogenes, Tetracyclines.

12865-68
GAS CHROMATOGRAPHIC DETERMINATION OF RESIDUES OF
ORGANOPHOSPHOROUS PESTICIDES WITH A MODIFIED FLAME IONIZATION
DETECTOR.
J H Ford M Beroza
Ass Offic Anal Chem J 50(3):601-604
Jun 1967 381 AS7
Chromatography, Ionization, Organophosphorus compounds,
Pesticide residues, Thermionic detectors.
Abstract

12866-68
METAL PHOSPHIDE PESTICIDES. PATENT 3,372,088.
W Freyberg W Friemel
Us Patent Office Offic Gaz 848(1):197
05 Mar 1968 156.65 OF2
Aliphatic monocarboxylic acid salts, Chemical control (pests),
Metal phosphides, Patents, Pesticides.

12867-68
HERBICIDAL SUBSTITUTED PHENOXY ACYLAMIDES. PATENT 3,326,942.
B J Geary
Us Patent Office Offic Gaz 839(3):1150
20 Jun 1967 156.65 OF2
Chemical control (weeds), Herbicides, Patents,
Phenoxy acylamides, Weed control.

12868-68
3-ARYLAMINOPOLYHALOCYCLOALK-2-EN-1-ONES AS HERBICIDES.
PATENT 3,360,359.
E E Gilbert B Veldhuis
Us Patent Office Offic Gaz 845(4):1458
26 Dec 1967 156.65 OF2
Arylaminopolyhalocycloalk-2-en-1-ones, 3-,
Chemical control (weeds), Herbicides, Patents.

12869-68
PESTICIDAL KETONE-MALONATE ADDUCTS. PATENT 3,341,406.
E E Gilbert P Lombardo
Us Patent Office Offic Gaz 842(2):672
12 Sep 1967 156.65 OF2
Chemical control (pests), Ketone-malonates, Patents,
Pesticides.

12870-6B
FUNGICIDALLY ACTIVE FLUOROCHLOROCYCLOHEXYLCYCLOHEXENEONES
AND PROCESS FOR CONTROLLING FUNGUS INFESTATIONS THEREWITH.
PATENT 3,338,781.
E E Gilbert
Us Patent Office Offic Gaz 841(5):1692
29 Aug 1967 156.65 OF2
Fluorochlorocyclohexylcyclohexeneones, Fungicides, Patents.

12871-6B
POLYNITRO HALO COMPOUNDS USEFUL AS ANTIBIOTICS, FUNGICIDES
AND EXPLOSIVES. PATENT 3,359,334.
M H Gold H J Marcus
Us Patent Office Offic Gaz 845(3):1118
19 Dec 1967 156.65 OF2
Antibiotics, Chloro-5,5-dinitro-1,2-pentanediol, 5-,
Explosives, Fungicides, Patents, Polynitrohalo compounds.

12872-68
COMPOSITIONS AND METHODS FOR REPELLING INSECTS WITH DIAMINO
SULFENES. PATENT 3,361,622.
L D Goodhue
Us Patent Office Offic Gaz 846(1):231
02 Jan 1968 156.65 OF2
Chemical control (insects), Diamino sulfenes, Insecticides,
Patents.

12873-68
METHOD AND COMPOSITIONS FOR THE CONTROL OF PLANT PATHOGENS
WITH MERCURIAL SULFOLANES. PATENT 3,361,625.
H F Goonewardene H Loev
Us Patent Office Offic Gaz 846(1):232
02 Jan 1968 156.65 OF2
Acetoxymercuri-2-methoxypropyl-3-sulfolanyl ether, 3-,
Acetoxymercuri-2-methoxysulfolane, 3-, Bactericides,
Chemical control (plant diseases), Fungicides, Patents.

12874-68
NOTE ON THE COLORIMETRIC METHOD FOR MALATHION IN
FORMULATIONS CONTAINING EMULSIFIERS.
T H Griffin E J Gregg
Ass Offic Anal Chem J 50(4):868-870
Aug 1967 381 AS7
Colorimetry, Emulsifying agents, Formulations, Malathion.
Abstract

12875-6B
PARA XYLYLENE BIS (PHOSPHONOUS ACID) BIS (ANILINO) COMPOUNDS
USEFUL AS ANTI-BACTERIAL AGENTS. PATENT 3,366,678.
A T Gnttmann E Jungermann W M Linfield
Us Patent Office Offic Gaz 846(5):1596
30 Jan 1968 156.65 OF2
Bactericides, Patents.

12876-68
HERBICIDAL COMPOSITION AND METROD. PATENT 3,330,643.
M W Barman J J D'Amico
Us Patent Office Offic Gaz 840(2):589
11 Jul 1967 156.65 OF2
Acetyl-4-methyl-2-thiazolyl diethylthiolcarbamate, 5-,
Chemical control (weeds), Herbicides, Patents, Thiocarbamates,
Thioic acids.

12877-6B
METHOD FOR CONTROLLING PLANT GROWTH. PATENT 3,326,658.
H E Harris H L Herzog
Us Patent Office Offic Gaz 839(3):1091
20 Jun 1967 156.65 OF2
Chemical control (weeds), Herbicides, Hydroxybenzonitriles,
Patents.

12878-68
METHOD OF INHIBITING BACTERIA WITH TETRAMIC ACID AND
DERIVATIVES THEREOF. PATENT 3,361,626.
S A Harris C O Gitterman
Us Patent Office Offic Gaz 846(1):232
02 Jan 1968 156.65 OF2
Bactericides, Chemical control (pests), Patents,
Tetramic acid.

12879-68
AGRICULTURAL CHEMICAL COMPOSITIONS. PATENT 3,333,942.
G S Hartley R Rowes
Us Patent Office Offic Gaz 841(1):221
01 Aug 1967 156.65 OF2
Aliphatic carboxylic acids, Amines, Chemical control (pests),
Patents, Pesticides.

12880-68
PROCESS FOR THE PREPARATION OF PENICILLINS. PATENT 3,372,158.
B G Hatt H Smith
Us Patent Office Offic Gaz 848(1):211
05 Mar 1968 156.65 OF2
Antibiotics, Patents, Penicillins.

12881-68
PESTICIDAL COMPOSITIONS OF M-ISOPROPYLPHENYL N-METHYL-N-NITROSOCARBAMATE. PATENT 3,345,256.
A H Haubein
Us Patent Office Offic Gaz 843(1):255
03 Oct 1967 156.65 OF2
Carbamates, Isopropylphenyl N-methyl-N-nitrosocarbamate, m-, Patents, Pesticides.

12882-68
ANTIBIOTIC ERIZOMYCIN AND PROCESS FOR MAKING SAME. PATENT 3,367,833.
R G Herr F Reusser
Us Patent Office Offic Gaz 847(1):230
06 Feb 1968 156.65 OF2
Antibiotics, Bactericides, Erizomycin, Patents, Streptomyces griseus.

12883-68
VISCOUS AQUEOUS PREPARATIONS. PATENT 3,341,319.
B B Hibbard
Us Patent Office Offic Gaz 842(2):652
12 Sep 1967 156.65 OF2
Carbamates, Chemical control (weeds), Herbicides, Patents, Polyalkenes.

12884-68
TRICYCLIC KETONE INSECTICIDES AND PROCESS THEREFOR. PATENT 3,331,86D.
P E Hoch
Us Patent Office Offic Gaz 840(3):949
18 Jul 1967 156.65 OF2
Chemical control (insects), Insecticides, Patents, Tricyclic ketone.

12885-68
HERBICIDAL COMPOSITION AND METHOD EMPLOYING 4,4'-BIPYRIDYLIUM QUATERNARY SALTS. PATENT 3,340,041.
R P Homer J E Downes
Us Patent Office Offic Gaz 842(1):268
05 Sep 1967 156.65 OF2
Bipyridylium, 4,4'-, Chemical control (weeds), Herbicides, Patents, Quaternary salts.

12886-68
METHOD OF CONTROLLING PLANT GROWTH. PATENT 3,328,156.
T R Hopkins
Us Patent Office Offic Gaz 839(4):1531
27 Jun 1967 156.65 OF2
Chemical control (weeds), Cycloalkane carboxamides, Herbicides, Patents.

12887-68
O,O-DIALKYL S-(2-HALO-1-(N-PHTHALIMIDO)ETHYL) PHOSPHORODITHIOATES AND PHOSPHOROTHIOATES AS INSECTICIDES. PATENT 3,355,353.
J D Jamison
Us Patent Office Offic Gaz 844(4):1455
28 Nov 1967 156.65 OF2
Dialkyl s-(2-halo-1-(n-phtbalimido)ethyl) phosphoroditbioate, Insecticides, Patents, Phosphorodithioates, Phosphorothioates.

12888-68
HERBICIDAL METHODS AND COMPOSITIONS EMPLOYING 3,4-DICHLORO-PHENYL DIMETHYL AND METHYLETHYL UREAS. PATENT 3,343,943.
R S Johnson
Us Patent Office Offic Gaz 842(4):1452
26 Sep 1967 156.65 OF2
Chemical control (weeds), Dichlorophenyl)-1-ethyl-3-methylurea, 1(3,4-, Dicbloropbenyl)-1,3-dimetbylurea, 1-(3,4-, Herbicides, Patents, Urea compounds.

12889-68
SULFINYL- AND SULFONYLPYRIDINE PESTICIDAL COMPOSITIONS AND METHOD OF USE. PATENT 3,371,011.
H Johnston
Us Patent Office Offic Gaz 847(4):1113
27 Feb 1968 156.65 OF2
Chemical control (pests), Patents, Pesticides, Sulfinylpyridines, Sulfonylpyridines.

12889-68
SOLVENT SYSTEM FOR FORMULATING CARBAMATES. PATENT 3,342,673.
H A Kaufman E J Broderick
Us Patent Office Offic Gaz 842(3):1068
19 Sep 1967 156.65 OF2
Amides, Carbamates, Formulations, Patents, Pesticides, Solvents.

12891-68
HALO-META-ISOPROPYLPHENYL N-METHYLCARBAMATES AND PESTICIDAL COMPOSITIONS. PATENT 3,341,4D1.
J R Kilsbeimer H R Moorefield
Us Patent Office Offic Gaz 842(2):671
12 Sep 1967 156.65 OF2
Carbamates, Patents, Pesticides.

12892-68
PESTICIDAL METHODS AND COMPOSITIONS EMPLOYING BICYCLIC CARBAMYLOXIMES. PATENT 3,332,839.
J R Kilsbeimer D T Manning
Us Patent Office Offic Gaz 840(4):1280
25 Jul 1967 156.65 OF2
Carbamyloximes, Chemical control (pests), Patents, Pesticides.

12893-68
HERBICIDAL COMPOSITION AND METROD. PATENT 3,326,661.
K Kitasaki R P Crawford
Us Patent Office Offic Gaz 839(3):1092
20 Jun 1967 156.65 OF2
Chemical control (weeds), Herbicides.

12894-68
METHOD OF CONTROLLING FUNGI WITH N-THIO-MONOFLUORO-DICHLORO-METHYL IMIDES. PATENT 3,341,4D3.
E Klauke E Kuhle P Grewe R Kaspers R Wegler
Us Patent Office Offic Gaz 842(2):671
12 Sep 1967 156.65 OF2
Chemical control (plant diseases), Fungicides, Patents, Tbio-monofluoro-dichloro-metbyl imides, N-.

12895-68
FUNGICIDAL COMPOSITIONS CONTAINING MANGANESE ETRYLENE BIS-DITRIOCARBAMATES AND AN AMINOACETIC ACID DERIVATIVE AND METHOD OF USING SAME. PATENT 3,362,873.
R N Knowles
Us Patent Office Offic Gaz 846(2):569
09 Jan 1968 156.65 OF2
Aminoacetic acids, Fungicides, Manganese ethylene bis-dithiocarbamates, Patents.

12896-68
HERBICIDAL 2-METHYLTHIO-S-TRIAZINES. PATENT 3,326,914.
E Knusli H Gysin
Us Patent Office Offic Gaz 839(3):1145
20 Jun 1967 156.65 OF2
Chemical control (weeds), Rerbicides, Metbyltbio-4-isopropylamino-6-(gamma-methoxypropylamino)-s-t, Patents, Triazines.

12897-68
METHOD OF DESTROYING UNDESIRED PLANT GROWTH. PATENT 3,351,456.
H Koopman J Daams
Us Patent Office Offic Gaz 844(1):25D
07 Nov 1967 156.65 OF2
Chemical control (weeds), Herbicides, Patents, Pentacbloro-alkylaminocyclotripbosphazatrienes.

12898-68
IMPROVED INFRARED METHOD FOR CARBARYL (SEVIN) IN COMMERCIAL FORMULATIONS.
M F Kovacs
Ass Offic Anal Chem J 50(3):566-568
Jun 1967 381 AS7
Carbaryl, Formulations, Infrared spectra, Pesticides.
Abstract

12899-68
NON-SELECTIVE HERBICIDAL METHOD. PATENT 3,360,358.
A P Kozacik H Myers
Us Patent Office Offic Gaz 845(4):1458
26 Dec 1967 156.65 OF2
Chemical control (weeds), Rerbicides, Patents, Sulfides.

129DD-68
ANTIBIOTIC AV290 AND PRODUCTION THEREOF. PATENT 3,338,786.
M P Kunstmann J N Porter
Us Patent Office Offic Gaz 841(5):1693
29 Aug 1967 156.65 OF2
Antibiotics, Patents.

12901-68
METHOD OF KILLING INSECTS WITH 5,6,7,8-TETRAHYDRO-1-NAPHTHYL -N-METHYL-CARBAMATE. PATENT 3,341,404.
J A Lambrech
Us Patent Office Offic Gaz 842(2):672
12 Sep 1967 156.65 OF2
Carbamates, Chemical control (insects), Insecticides, Patents, Tetrahydro-1-naphthyl-n-methyl carbamate, 5,6,7,8-.

12902-68
METHOD OF CONTROLLING GROWTH OF BACTERIA USING 4-METHYL-1-BENZO(F)QUINOLONE-2-CARBOXYLIC ACID. PATENT 3,324,003.
G Y Lesher
Us Patent Office Offic Gaz 839(1):268
06 Jun 1967 156.65 OE2
Antibiotics, Bactericides, Patents.

12903-68
BACTERICIDAL 4-CHLORO-2-CYCLOPENTYLPHENOL. PATENT 3,323,988.
C L Lorah
Us Patent Office Offic Gaz 839(1):266
06 Jun 1967 156.65 OE2
Antibiotics, Bactericides, Chloro-2-cyclopentylphenol, 4-, Patents.

12904-68
GAS CHROMATOGRAPHIC ANALYSIS OF HEPTACHLOR CONTENT OF FORMULATIONS.
M Malina
Ass Offic Anal Chem J 50(3):572-574
Jun 1967 381 AS7
Chromatography, Formulations, Heptachlor, Insecticides.
Abstract

12905-68
ACTIVE TOXICANT O-(5-CYANO-2-PYRIDYL)O,O-DIALKYL PHOSPHORCTHIOATE ESTERS FOR CONTROLLING PESTS.
PATENT 3,326,752.
E H Rigterink
Us Patent Office Offic Gaz 839(3):1112
20 Jun 1967 156.65 OF2
Chemical control (insects), Insecticides, Patents.

12906-68
PESTICIDE PRODUCTION PROCESSES. TP248 .P47S5.
M Sittig
200 P. NOYES DEVELOPMENT CORP., PARKRIDGE, N.J.
1967
Pesticides.

12907-68
NOMENCLATURE OF PHOSPHAMIDON ISOMERS.
E Y Spencer
J Econ Entomol 60(6):1749-1750
Dec 1967 421 J822
Isomers, Nomenclature, Phosphamidon.

12908-68
PUBLICATION AND ANALYSIS OF HEMPA BY CHROMATOGRAPHIC TECHNIQUES.
A C Terranova C H Schmidt
J Econ Entomol 60(6):1659-1663
Dec 1967 421 J822
Chemosterilants, Chromatography, Hempa.
Abstract

12909-68
AGRICULTURAL CHEMICALS. BOOK IV. FUNGICIDES. 395 T38.
W T Thomson
293 P. THOMSON PUBLICATIONS. DAVIS, CALIFORNIA
1967
Fungicides, Handbooks.

80 ENGINEERING

12910-68
SPRAY ATOMIZATION, APPLICATION VOLUME AND COVERAGE.
N B Akesson W E Burgoyne
Calif Mosquito Contr Ass Proc Pap 35:139-144
1967 428 C763
Pesticide application, Spraying equipment.

12911-68
VEHICLE MOUNTED ASPIRATORS.
W L Bidlingmayer J D Edman
Calif Mosquito Contr Ass Proc Pap 35:95
1967 428 C763
Aspirators, Culicidae, Insect collecting equipment, Insect flight, Vehicles.

12912-68
AN IMPROVED TECHNIQUE FOR AERIAL APPLICATIONS OF ULTRA-LOW-VOLUME MATERIALS TO EXPERIMENTAL PLOTS.
T C Cleveland W P Scott
J Econ Entomol 60(6):1761-1762
Dec 1967 421 J822
Aerial spraying, Malathion, Pesticide application, Spraying equipment, Ultra low volume application.

12913-68
SAMPLING MITES ON DOUGLAS-FIR FOLIAGE WITH THE HENDERSON-MCBURNIE MACHINE.
D G Fellin
J Econ Entomol 60(6):1743-1744
Dec 1967 421 J822
Equipment, Mites, Pseudotsuga menziesii, Sampling (statistics).

12914-68
AUTOMATIC WATER METERING MACHINE FOR MOSQUITO LARVICIDE TESTS.
A D Flynn
J Econ Entomol 60(6):1666-1668
Dec 1967 421 J822
Culicidae, Larvicides, Water meters.
Abstract

12915-68
A LIGHT WEIGHT ENTOMOLOGICAL SURVEY KIT. (ABSTRACT).
E J Gerberg C S Barnhart
Calif Mosquito Contr Ass Proc Pap 35:120
1967 428 C763
Insect collecting equipment.
Abstract

12916-68
A PORTABLE UNIT FOR VENTILATING INSECT CAGES.
R B Hawkes
J Econ Entomol 60(6):1756-1758
Dec 1967 421 J822
Insect cages, Ventilation.

12917-68
THIOKOL SWAMP SPRYTE EQUIPPED WITH AUTOMATIC COMPRESSED AIR SPRAYING UNITS FOR APPLYING GRANULE AND LIQUID INSECTICIDES.
J H Kimball A B Thompson
Calif Mosquito Contr Ass Proc Pap 35:119-120
1967 428 C763
Aedes, Chironomidae, Culicidae, Dusting, Insecticides, Pesticide application, Spraying equipment, Vehicles.

12918-68
A COLLAPSIBLE PORTABLE VEHICLE MOUNTED INSECT TRAP. (ABSTRACT).
V A Loy C S Barnhart A A Therrien
Calif Mosquito Contr Ass Proc Pap 35:121
1967 428 C763
Aerial spraying, Insect collecting equipment, Insect traps, Vehicles.

12919-68
THE HELICOPTER AS A NEW TOOL IN MOSQUITO CONTROL PROGRAM OF THE MERCED COUNTY ABATEMENT DISTRICT. (ABSTRACT).
A Machado B Fenton T D Mulhern

80 12920-68

Calif Mosquito Contr Ass Proc Pap 35:129
1967 428 C763
Aerial spraying, Culicidae, Helicopters, Insect control.

12920-68
SPRAYING APPARATUS AND METHOD. PATENT 3,340,087.
M F Mazzola
Us Patent Office Offic Gaz 842(1):277
05 Sep 1967 156.65 OP2
Patents, Pesticide application, Spraying equipment.

12921-68
NOTE ON SOME OPERATING PARAMETERS OF A HALOGEN DETECTOR CONSTRUCTED AND UTILIZED FOR GAS-LIQUID CHROMATOGRAPHY.
H A McLeod W P McKinley
Ass Offic Anal Chem J 50(3):641-643
Jnn 1967 381 AS7
Chlorinated hydrocarbons, Chromatography, Organophosphorus compounds.

12922-68
AN IMPROVED PORTABLE SHEEP DIPPING VAT.
B K Strickland O J Hummon J L Hourrigan
Amer Vet Med Ass J 151(2):188-190.
15 Jul 1967 41.8 AM3
Sheep-dip, Tanks.

12923-68
A LOW COST AIRBOAT FOR USE IN MOSQUITO CONTROL.
A H Thompson
Calif Mosquito Contr Ass Proc Pap 35:124-125
1967 428 C763
Boats, Culicidae, Ground-effect machines, Insect control, Insecticide application, Larvicides, Vehicles.

90 INDUSTRY

12924-68
PESTICIDE SAFETY EDUCATION.
Agr Chem 22(9):28-3D,32
Oct 1967 381 AG8
Accident prevention, Education, Pesticides, Public health.

12925-68
THE PESTICIDE OUTLOOK.
G W Irving
Agr Chem 22(12):12-15
Dec 1967 381 AG8
Pesticides.

12926-68
THE SAFE USE OF MODERN PESTICIDES. 2.
L Lykken
Agr Chem 22(9):35-36
Oct 1967 381 AG8
Accident prevention, Pesticides, Toxicity.

Economics

12927-68
THE '67 PESTICIDE REVIEW.
Agr Chem 22(12):30-311
Dec 1967 381 AG8
Foreign trade, Pesticides, Sales.

Education

12928-68
PESTICIDES, THEIR USE AND MISUSE.
L G K Iverson
Amer Vet Med Ass J 151(12):1806-1809
15 Dec 1967 41.8 AM3
Accidents, Costs, Pesticides.

12929-68
THE SAFE USE OF PESTICIDES. PART 3.
L Lykken
Agr Chem 22(10):38,40,44
Oct 1967 381 AG8
Accident prevention, Pesticides.

12930-68
PESTICIDES AND PUBLIC RELATIONS.
P C Minter
Agr Chem 22(10):20-22
Oct 1967 381 AG8
Pesticides, Public health, Public relations.

Regulations

12931-6E
OPPORTUNITIES - HAZARDS.
W Lamade
Agr Chem 22(12):44,46
Dec 1967 381 AG8
Accident prevention, Legislation, Pesticides, Spraying.

ABIES CONCOLOR
Douglas-fir tussock moth (Hemerocampa pseudotsugata) egg-mass distribution on white fir in northeastern California. 12359

ABNORMALITIES
Heredity of retinal dysplasia in Bedlington Terriers. 12697

ABORTION
Treatment and chemical control of the brucellic abortion of cattle with 4,4'-diamidinodiazoaminobenzene. 12613

A survey of abortions and long return intervals in dairy herds in the Huntly district. 12670

Pathogensis of leptospiral abortion in cattle. 12672

ABSCESSES
Swine abscesses caused by Lancefield's group E streptococci. III. application of a precipitin test in selected groups of market pigs. 12703

ACACIA
Bark vs foliage applications of insecticides for control of Psylla uncatoides on Acacia. 12499

ACARICIDES
Comparisons of soil and foliar applications of acaricides for control of the two-spotted spider mite on strawberries in southern California. 12525

Method for control of arthropods. patent 3,356,568. 12747

Report on chlorinated insecticides and miticides. 12801

ACCIDENT PREVENTION
Pesticide safety education. 12924

The safe use of modern pesticides. 2. 12926

The safe use of pesticides. part 3. 12929

Opportunities - hazards. 12931

ACCIDENTS
Pesticides, their use and misuse. 12928

ACER RUBRUM
Attractiveness to Nitidulidae (Coleoptera) of natural attrahents of trees and fungus origin supplemented with vinegar and water in an Appalachian hardwood forest. 12366

ACERIA TULIPAE
Reaction of corn to the feeding of the wheat curl mite. 12510

ACETATES
Insect sex attractants. VIII. structure-activity relationships in sex attractant for male cabbage loopers. 12492

ACETOXYMERCURI-2-METHOXYPROPYL-3-SULFOLANYL ETHER, 3-
Method and compositions for the control of plant pathogens with mercurial sulfolanes. patent 3,361,625. 12873

ACETOXYMERCURI-2-METHOXYSULFOLANE, 3-
Method and compositions for the control of plant pathogens with mercurial sulfolanes. patent 3,361,625. 12873

ACETYL-4-METHYL-2-THIAZOLYL DIETHYLTHICLCARBAMATE, 5-
Herbicidal composition and method. patent 3,330,643. 12876

ACETYLCHOLINE
Versuche zur Beeinflussung von Acetylcholin, Neguvon und Asuntol durch Atropin (Experiments for influencing acetylcholine, neguvon and asuntol with atropine). 12815

ACHETA DOMESTICUS
Toxicity of insecticides to house crickets and bioassay of treated soils in the laboratory. 12318

Carbonic anhydrase in the house cricket, Acheta domesticus. 12333

Bioassay of field treated soils to determine bioactivity and movement of insecticides. 12854

ACHIDIDAE
The derivation of the motor command to the spiracles of the locust. 12364

ACHOTELSA COLLARIS
A further pest species of silverfish (Thysanura) from Australia, with a key to the domestic species. 12790

ACYLSULFAMOYLPHENYL PHOSPHATE
Acylsulfamoylphenyl phosphate warm-blooded animal systemic insecticides. patent 3,341,409. 12738

ACYRTHOSIPHON PISUM
Discovery of the pea aphid parasite Aphidius smithi, in central Mexico. 12482

Aspects of pea aphid nutrition. 12516

ACYRTHOSIPHON SOLANI
Inoculation of pea enation mosaic virus by the green peach, potato, and foxglove aphids. 12448

ADALIA BIPUNCTATA
The effects of different aphid foods on Adalia bipunctata L. and Coccinella 7-punctata L. 12312

ADELGES PICEAE
Effect of minus 29 degrees F on overwintering populations of the balsam woolly aphid in North Carolina. 12308

AEDES
Potential for naturalistic control of mosquitoes. 12389

A report on the distribution and biology of tree hole mosquitoes in the western United States. 12402

Thiokol swamp sprayte equipped with automatic compressed air spraying units for applying granule and lignid insecticides. 12917

AEDES AEGYPTI
Virus-like particles in insect cells of three types. 12334

Chemicals tested as space repellents against yellow-fever mosquitoes. i. esters. 12341

Electrophysiological studies of olfactory receptor cells in the antennae of female mosquitoes (Aedes aegypti L.). 12355

Resistance in Aedes aegypti to chemosterilants. effect of apholate selection on resistance to apholate, tepa, and metepa. 12368

Teratogenic effects of a tranquilizer, trifluoperazine dihydrochloride on the yellow-fever mosquito. 12369

Inherited semi-sterility in Aedes aegypti. (abstract). 12386

Experiments on the biological control of mosquitoes with the fungus Beauveria bassiana (Bals.) Vuill. (abstract). 12391

Surveillance of Aedes aegypti in the U.S. air Force. 12392

A study on the egg laying behavior of Aedes aegypti in central Texas. (abstract). 12395

Problems of interaction and density in mosquitoes in relation to Aedes aegypti eradication. 12398

Mosquito control agents derived from petroleum hydrocarbons: laboratory effectiveness. (abstract). 12399

Dengue fever in a Puerto Rican community. 12401

Current status of Third United States Army Aedes aegypti eradication program. 12403

World-wide mosquito control, a growing public health need. 12404

Effects of low-level ultra-violet irradiation on reproduction of Aedes aegypti (L.) (preliminary report) (abstract). 12407

AEDES DORSALIS
Comparative oviposition selection preference by Aedes dorsalis and Aedes nigromaculis to three inorganic salts in the laboratory. (abstract). 12405

AEDES NIGROMACULIS
Experiments on the biological control of mosquitoes with the fungus Beauveria bassiana (Bals.) Vuill. (abstract). 12391

Ecological factors influencing the efficacy of mosquito con-

AEDES SIERRENSIS

trol in irrigated pastures in California. (abstract). 12396

World-wide mosquito control, a growing public health need. 12404

Comparative oviposition selection preference by Aedes dorsalis and Aedes nigromaculis to three inorganic salts in the laboratory. (abstract). 12405

Beneficial effects of research to mosquito control operations. 12410

AEDES SIERRENSIS
Experiments on the biological control of mosquitoes with the fungus Beauveria bassiana (Bals.) Vuill. (abstract). 12391

AEDES VEXANS
Fluctuations in distribution and abundance of Aedes vexans (Meigen) in Salt Lake County. 12303

Effect of temperature and relative humidity on hatching of eggs and on longevity of adults of Aedes vexans (Meigen). (abstract). 12390

AERIAL SPRAYING
Low-volume aerial spraying of several insecticides for cotton-insect control. 12476

Horn fly and face fly control on range cattle with aerial applications of ultra-low-volume malathion sprays. 12741

An improved technique for aerial applications of ultra-low-volume materials to experimental plots. 12912

A collapsible portable vehicle mounted insect trap. (abstract). 12918

The helicopter as a new tool in mosquito control program of the Merced County abatement district. (abstract). 12919

AEROSOLS
Some factors affecting kill of the stable fly, Stomoxys calcitrans (L.), with insecticidal thermal aerosols. (abstract). 12322

Control of mosquito larvae with Dursban insecticide applied as a thermal fog. (abstract). 12400

Immunity following aerosol exposure to high-embryo-passage avian infectious bronchitis virus. 12629

AFLATOXIN
Histological and electron-microscopic studies on experimental liver cirrhosis in ducklings produced by aflatoxin. 12645

Study of the films ready for use in the chromatography of aflatoxins. 12686

AFRICA
A simple laboratory method for testing the susceptibility of larvae of Simulium neavei complex to insecticides. 12823

AFRICAN HORSE SICKNESS VIRUS
Immunization of horses against African horse-sickness with attenuated neurotropic viral strains propagated in chicken embryos. 12620

AFRICAN SWINE FEVER VIRUS
Segregation of a nonhemadsorbing African swine fever virus in tissue culture. 12586

AGGLUTINATION
An indirect haemagglutination test for the diagnosis of Babesia argentina infection in cattle. 12593

In vitro agglutination of bovine erythrocytes infected with Babesia argentina. 12594

The presence of antibodies in the ovine serum inhibiting the hemagglutination by myxovirus parainfluenza. 12612

AGGLUTINATION TEST
Agglutination test for sheeppox virus using antiglobulin. 12561

A stable antigen for the tube agglutination test in chronic swine erysipelas. 12727

AGROBACTERIUM TUMEFACIENS
Chemical composition of cell envelopes from virulent and avirulent strains of Agrobacterium tumefaciens. 12440

AGROSTIS SPICA-VENTI
Simultaneous control of field foxtail grass, silky bent grass, and broad leafed weeds. 12553

AGROTIS IPSILON
Insecticidal control of regulated populations of black cutworm on corn. 12477

AIR
Studies on the effect of airtightness on the development of Tribolium castaneum Herbst (Coleoptera: Tenebrionidae) in wheat and wheat flour. 12787

AIR POLLUTION
Identification of air pollution damage to agricultural crops. 12795

AIR-BORNE PLANT DISEASES
Spread of rice blast in small fields. 12416

ALCOHOLS
Insect sex attractants. VIII. structure-activity relationships in sex attractant for male cabbage loopers. 12492

Investigations on immunogenetics of ethanol-inactivated vaccines against Aujeszky's disease. 12642

ALDRIN
Toxicity of insecticides to house crickets and bioassay of treated soils in the laboratory. 12318

Effect of detergents and inorganic salts in water on the persistence and movement of insecticides in soils. 12797

Pesticides and the soil fauna; effects of Aldrin and DDT in an arable field. 12803

Bioassay of field treated soils to determine bioactivity and movement of insecticides. 12854

ALEOCHARA BIMACULATA
Laboratory evaluation of two aleocharine parasites of the face fly. 12382

ALEOCHARA TRISTIS
Laboratory evaluation of two aleocharine parasites of the face fly. 12382

ALFALFA
Biology and distribution of Tetrastichus incertus, a parasite of the alfalfa weevil. 12378

Leaf disk method of testing alfalfa plants for resistance to feeding by adult alfalfa weevils. 12479

Discovery of the pea aphid parasite Aphidius smithi, in central Mexico. 12482

Systemic insecticides as lygus bug controls compatible with bee pollination on alfalfa. 12493

Behavior of the spotted alfalfa aphid,Therioaphis maculata (Buckton), on resistant and susceptible alfalfas. 12497

Sources of alfalfa seed chalcid resistance in alfalfa. 12512

1967 insecticide recommendations; forage crops insects. 12518

Bloat in cattle. XIII. efficacy of molasses-salt blocks containing poloxalene in control of alfalfa bloat. 12715

ALIPHATIC CARBOXYLIC ACIDS
Agricultural chemical compositions. patent 3,333,942. 12879

ALIPHATIC MONOCARBOXYLIC ACID SALTS
Metal phosphide pesticides. patent 3,372,088. 12866

ALKALINE PHOSPHATASE
Zinc deficiency in reproducing gilts fed a diet high in calcium and its effect on tissue zinc and blood serum alkaline phosphatase. 12628

ALKYD RESINS
Alkyd resins with berbicidal properties. patent 3,343,941. 12844

ALKYLPHOSPHONCTHIOATES
Alkylphosphonothioates. patent 3,326,749. 12856

ALTEBNABIA
Key for determination of the most common, species of the genus Alternaria (Nees) Wiltsh. Emend. Joly. 12437

ALUMINUM FOIL
Insect abundances on tomatoes and sguash mulcbed with aluminum and plastic sheetings. 12529

AMBLYOMMA AMERICANOM
Control of the lone star tick on cattle. 12739

AMBLYSEIUS
Five new pbytoseid mites from U.a.r., with collection notes on three other species (ACarina: Phytoseiidae). 12298

AMIDES
Solvent system for formulating carbamates. patent 3,342,673. 12890

AMINES
Method and compositions for enbancing the utilization of iron by mammals. patent 3,367,834. 12599

Agricnltural chemical compositions. patent 3,333,942. 12879

AMINO ACIDS
Incorporation of radioactive amino acids by Coxiella burnetii and its host, the chick embryo. 12657

Rate constants of bydrated electron reactions with peptides and proteins. 12851

AMINOACETIC ACIDS
Fungicidal compositions containing manganese ethylene bis-dithiccarbamates and an aminoacetic acid derivative and method of using same. patent 3,362,873. 12895

AMINOTBANSFEBASES
Changes in blood serum transaminase associated with lupine and larkspur poisoning in cattle. 12705

AMITBOLE
Determination of 3-amino-1,2,4-triazole in crops. 12800

Collaborative study of a titrimetric metbod for tbe assay of amitrole fcrmulaticns. 12848

AMMONIA
Method for killing potato vines with ammonia. patent 3,331,675. 12552

AMPROLIUM
Amprolium for control of experimental coccidiosis in lambs. 12762

Ontersuchungen uber die Vertraglichkeit der Coccidiostatica Amprolium und Zcalen.(Investigations on the tolerance of coccidiostats amprolium and zoalene.). 12818

ANAPLASMA MARGINALE
Infectivity of Anaplasma marginale in bovine blcod after prolonged freezing. 12717

ANEMIA
Existence of infectious feline anaemia (Eperythrozoonosis of cat) in Madagascar. 12725

Snpplying at least about 4 percent iron and a sweetening agent for the prevention of iron-deficiency anemia in baby pigs. patent 3,332,778. 12732

ANESTHESIA
Die Propanidid, Epontol WZ, Narkose beim Hund. (Propanidid (Epontol WZ) narcosis of dog). 12828

ANILIDES
Method of selectively destroying weeds. patent 3,332,768. 12545

Metbod for regulating growtb of plants. patent 3,326,659. 12834

ANIMAL DISEASES
Study on the cattle ticks in Guadeloupe and Martinique. iI. Pathogenic agents transmitted by ticks. 12748

ANIMAL NUTBITION
Metbod and compositions for enbancing the utilization of iron by mammals. patent 3,367,834. 12599

Effects of bovine diet on oviposition, larval development, and pupation of the face fly, Musca autumnalis DeGeer. 12753

ANIMAL PHYSIOLOGY
Rates of hydrocortisone and corticosterone secretion in calves. 12731

ANIMAL VECTORS
Pulmonary bovine tubercnlosis in an owner and in his dairy herd. 12563

Bovine papular stomatitis with apparent transmission to man. 12581

Streptomycin treatment of bovine carriers of Leptospira pomona. 12602

Natural occurrence of Scbistosoma spindale in Bandicota bengalensis in Bombay together with a note on their possible role in the dissemination of schistosomiasis spindale in domestic ruminants. 12750

ANIMALS
Acylsulfamoylphenyl phospbate warm-blooded animal systemic insecticides. patent 3,341,409. 12738

ANOPHELES
Potential for natnralistic control of mosguitoes. 12389

Seasonal mosguito distribution and abundance in Central Luzon. (abstract). 12393

A report on tbe distribntion and biology of tree bole mosguitoes in the western Onited States. 12402

World-wide mosgnito control, a growing pnblic healtb need. 12404

ANOPHELES ALBIMANUS
Experiments on the biological control of mosguitoes with tbe fungus Beauveria bassiana (Bals.) Vuill. (abstract). 12391

ANOPHELES FREEBORNI
Tbe flight habits of Anopheles freeborni Aitken. 12387

ANTENNAE
Electrophysiological stndies of olfactory receptor cells in the antennae of female mosgnitoes (Aedes aegypti L.). 12355

ANTHELMINTICS
Trials of simultaneous treatment of gastro enteritic strongylosis and monieziasis of cattle witb a mixtnre of thiabendazole and niclosamide. 12757

Metbod for controlling insects and worms with organophosphorns cyclic sulfone compositions. patent 3,341,407. 12760

Anthelmintic compositions and metbods of using same. patent 3,360,433. 12761

Anthelmintic compositions and methods of using same. patent 3,340,144. 12771

Control of endoparasites of animals. patent 3,344,021. 12772

3-Iodo-4-hydroxy-5-nitrobenzonitrile as an anthelmintic. patent 3,331,738. 12773

ANTHERAEA EOCALYPTI
The utilization of sngars by insect cells in culture. 12321

Virus-like particles in insect cells of three types. 12334

ANTHONOMOS GRANDIS
Mating bebavior and population dynamics of the boll weevil as related to the sterile-male-technigue of insect control. 12339

Inflnence of ligbt on diapanse in the boll weevil. i. dependence of diapause response on the spectral composition of tbe light nsed to extend tbe photoperiod. 12346

ANTHRACNOSE (WATERMELONS)

Low-volume aerial spraying of several insecticides for cotton-insect control. 12476

Field experiments with sterile males for eradication of the boll weevil. 12483

Comparison of three rates of application of ultra-low-volume azinphosmethyl in a reproduction-diapause control program against the boll weevil. 12503

ANTHRACNOSE (WATERMELONS)
Interaction of race I and race II of Colletotrichum orbiculare on watermelon. 12445

ANTIBIOTICS
Precipitation of bacitracin upon an inert, insoluble, inorganic support for use in animal feeds. patent 3,345,178. 12671

Antibiotic anti-tumor agents and method of producing same. patent 3,366,540. 12720

Antibiotic armentomycin and a process for producing the same. patent 3,342,681. 12842

Antibiotic asperlin and process for producing using aspergillus nidulans. patent 3,366,541. 12843

Rifamycin type antibiotic compounds. patent 3,338,888. 12847

Polynitro halo compounds useful as antibiotics, fungicides and explosives. patent 3,359,334. 12871

Process for the preparation of penicillins. patent 3,372,158. 12880

Antibiotic erizomycin and process for making same. patent 3,367,833. 12882

Antibiotic AV290 and production thereof. patent 3,338,786. 12900

Method of controlling growth of bacteria using 4-methyl-1-benzo(f)quinolone-2-carboxylic acid. patent 3,324,003. 12902

Bactericidal 4-chloro-2-cyclopentylphenol. patent 3,323,988. 12903

ANTIBODIES
The presence of antibodies in the ovine serum inhibiting the hemagglutination by myxovirus parainfluenza. 12612

Investigation into the usefulness of the non-agglutinogenic Brucella abortus adjuvant vaccine Duphavac N.A. in the control of bovine brucellosis. 12694

Antibody and cellular response in lambs immunized against Trichostrongylus axei. 12711

ANTICARSIA GEMMATALIS
Insect preference for peanut varieties. 12500

ANTIDOTES
Hemic concentrations of oximes given intravenously to cattle. 12824

ANTIGENS
Further studies on porcine enteroviruses isolated at Cambridge. i. infections in SPF pigs and the preparation of monospecific antisera. ii. serological grouping. 12557

Brucellosis antigens. patent 3,342,684. 12650

A stable antigen for the tube agglutination test in chronic swine erysipelas. 12727

ANTISEPTICS
Testing of coarse disinfectants against bacteria. 12714

Antibiotic asperlin and process for producing using aspergillus nidulans. patent 3,366,541. 12843

APHIDIDAE
Insect abundances on tomatoes and squash mulched with aluminum and plastic sheetings. 12529

Note on a laboratory sampling procedure for determining aphids in hops. 12777

Detection of leaf miners in canned spinach and turnip greens. 12778

Determination of aphids in hops. 12791

APHIDIUS SMITHI
Discovery of the pea aphid parasite Aphidius smithi, in central Mexico. 12482

APHIS FABAE
Continuous rearing of aphids of the Aphis fabae complex on sterile synthetic diet. 12327

APHIS POMI
1967 insecticide recommendations; apple insect control (commercial). 12489

APHOLATE
Mating behavior and population dynamics of the boll weevil as related to the sterile-male-technique of insect control. 12339

Resistance in Aedes aegypti to chemosterilants. effect of apholate selection on resistance to apholate, tepa, and metepa. 12368

Sterile-male releases control populations of Drosophila melanogaster in cage tests. 12381

Field experiments with sterile males for eradication of the boll weevil. 12483

Chemosterilization of male European corn borers by feeding of tepa and apholate to larvae. 12488

Suppression of Drosophila melanogaster in tomato field plots by the release of flies sterilized by apholate. 12505

Chemical control of reproduction in confined populations of pigeons (Columba livia). 12821

APIS MELLIFERA
The incidence of virus diseases in the honey bee. 12311

Composition and possible significance of fatty acids in the lipid classes in honey bee semen. (chemistry of the drone honey bee reproductive system. 4.). 12314

Insect abundances on tomatoes and squash mulched with aluminum and plastic sheetings. 12529

APPLES
A transmissible red-ring disease on the fruit of delicious apples. 12424

Antifungal phenolic acids in apple fruits after infection with Sclerotinia fructigena. 12426

An unusual occurrence of eye rot of apple in California due to Nectria galligena. 12443

Natural spread of stem pitting virus of apple. 12454

Influence of dapple apple and stem pitting viruses on tree growth and fruit yields over a fourteen-year period. 12455

1967 insecticide recommendations; apple insect control (commercial). 12489

Apple maggot adult dispersion in a New Brunswick apple orchard. 12506

The effect of growth retarding and growth promoting substances on flower bud formation in cultivars of the apple, Malus sylvestris, Mill. 12827

AQUATIC INSECTS
An evaluation of the bottom fauna and its role as fish food in Fern Lake, Washington. 12299

An ecological study of Chaoborus. 12302

AQUATIC PLANTS
Potential for naturalistic control of mosquitoes. 12389

ARBOVIROSES
Animal sentinels in a statewide arthropod-borne encephalitis surveillance program. 12749

ARCEOTHCBIOM CAMPYLCPODUM
Inoculation cf monterey pine with dwarf mistletoe from bishop pine. 12550

ARGAS PERSICOS
Fluorescent dyes for marking and recovering fowl ticks in poultry houses treated with insecticides. 12746

ARGENTINA
Tomato spotted wilt virus in lettuce crop in Argentina. 12452

ARMED FORCES
Surveillance of Aedes aegypti in the U.S. air Force. 12392

Current status of Third United States Army Aedes aegypti eradication program. 12403

ARMENTOMYCIN
Antibiotic armentomycin and a process for producing the same. patent 3,342,681. 12842

ARSENATES
Microdetermination of phosphorus. 12813

ARTERIOSCLEROSIS
Treatment cf arteriosclerotic diseases. patent 3,337,406. 12597

ARTHROPODA
Method for control of arthropods. patent 3,356,568. 12747

Animal sentinels in a statewide arthropod-borne encephalitis surveillance program. 12749

Detection of leaf miners in canned spinach and turnip greens. 12778

ARYLAMINOPOLYHALOCYCLOALK-2-EN-1-ONES, 3-
3-arylaminopolyhalocycloalk-2-en-1-ones as herbicides. patent 3,360,359. 12868

ASCARIDIA
Research note: Incidence of endoparasitism in a group of pigeons in the Chicago area. 12634

ASPERGILLUS NIDULANS
Antibiotic asperlin and process for producing using aspergillus nidulans. patent 3,366,541. 12843

ASPERLIN
Antibiotic asperlin and process for producing using aspergillus nidulans. patent 3,366,541. 12843

ASPHALTS
Effects of planting depth and asphalt mulch on Rhizoctonia root and hypocotyl rot of snapbean. 12441

ASPIRATORS
Vehicle mounted aspirators. 12911

ASSAY
Collaborative study of a titrimetric method for the assay of amitrole formulations. 12848

ASTER YELLOWS (VEGETABLES)
Purple-top of potatoes in Guatemala. 12459

ASTRAGALUS
Astragalus mollissimus (Locoweed) toxicosis of horses in western Kansas. 12678

The effect of loco plant on libido and fertility in rams. 12706

ATHEROSCLEROSIS
Treatment cf arteriosclerotic diseases. patent 3,337,406. 12597

ATMOSPHERE
Respiration cf the confused flour beetle in five atmospheres of varying C02:02 ratios. 12780

Respiration of confused flour beetle adults in C02 or N2 and after subletbal fumigation. 12781

ATROPINE
Versuche zur Beeinflussung von Acetylcholin, Neguvon und Asuntol durch Atropin (Experiments for influencing acetylcholine, neguvon and asuntol with atropine). 12815

ATTRACTANTS
Factors influencing the response of Ips confusus (Coleoptera: Scolytidae) to male attractant. 12316

Attractant and stimulant factors for oviposition of Culex pipiens fatigans in natural breeding sites. 12351

Attractiveness to Nitidulidae (Coleoptera) of natural attrahents of trees and fungus origin supplemented with vinegar and water in an Appalachian hardwood forest. 12366

A study on the egg laying behavior of Aedes aegypti in central Texas. (abstract). 12395

AUTOPSIES
Post-mortem serological diagnosis of Newcastle disease. 12690

AUTORADIOGRAPHY
An autoradiographic study of RNA synthesis in isolated salivary glands of Drosophila hydei. 12309

AVIAN LEUKOSIS COMPLEX
Avian leukosis treatment with inactivated rous sarcoma virus. patent 3,326,767. 12631

AVIAN MALARIA
Detection of erythrocyte bound globulin in Plasmodium gallinaceum infected chickens. 12617

AZADIRACHTA INDICA
Neem seed as a protectant against bruchid Callosobruchus maculatus (Fabricius) infesting some leguminous seeds. 12783

AZINPHOSMETHYL
Comparison of three rates of application of ultra-low-volume azinphosmethyl in a reproduction-diapause control program against the boll weevil. 12503

The relationship of arthropod predators to crop damage inflicted by the sugarcane borer. 12511

BABESIA ARGENTINA
An indirect haemagglutination test for the diagnosis of Babesia argentina infection in cattle. 12593

In vitro agglutination of bovine erythrocytes infected with Babesia argentina. 12594

BABY PIGS
Segregation of a nonhemadsorbing African swine fever virus in tissue culture. 12586

BACILLUS THORINGIENSIS
Virus-like particles in insect cells of three types. 12334

An experimental spray program for integrated control of insects affecting sour cherry. 12513

Inhibitive effect of Bacillus thuringiensis on the development of the face fly in cow manure. 12740

BACITRACIN
Precipitation of bacitracin upon an inert, insoluble, inorganic support for use in animal feeds. patent 3,345,178. 12671

BACTERIA
Laboratory and field studies on mosquito control in waste disposal lagoons in Louisiana. (abstract). 12409

Experimental Streptococcus agalactiae mastitis in cattle. attempts to superimpose the organism in lactating glands harboring unrelated bacterial infections and in glands with experimentally induced sterile inflammation. 12700

Testing of coarse disinfectants against bacteria. 12714

BACTERIAL DISEASES (PLANTS)
Incidence of halo blight in Idaho. 12420

A strain of Pseudomonas lapsa isolated from corn seeds causing bacterial stalk rot in India. 12453

Eradication of the seedborne inoculum of Xanthomonas oryzae by hot water treatment of paddy seeds. 12463

BACTERIAL VACCINES

BACTERIAL VACCINES
Brucellosis antigens. patent 3,342,684. 12650

BACTERICIDES
Antibiotic armentomycin and a process for producing the same. patent 3,342,681. 12842

Antibiotic asperlin and process for producing using aspergillus nidulans. patent 3,366,541. 12843

Halogenated aromatic pesticidal compositions for controlling fungi, bacteria and nematodes. patent 3,331,735. 12845

Anti-microbial therapeutics consisting of nitrofurantoin, tetracycline, and D-glucosamine. patent 3,328,258. 12864

Method and compositions for the control of plant pathogens with mercurial sulfolanes. patent 3,361,625. 12873

Para xylylene bis (phosphonous acid) bis (anilino) compounds useful as anti-bacterial agents. patent 3,366,678. 12875

Method of inhibiting bacteria with tetramic acid and derivatives thereof. patent 3,361,626. 12878

Antibiotic erizomycin and process for making same. patent 3,367,833. 12882

Method of controlling growth of bacteria using 4-methyl-1-benzo(f)quinolone-2-carboxylic acid. patent 3,324,003. 12902

Bactericidal 4-chloro-2-cyclopentylphenol. patent 3,323,988. 12903

BAITS
The effects on wildlife from Norway rat control using zinc phosphide bait. 12555

BARK
Juglone (5-hydroxy-1,4-naphthoquinone) from Carya ovata, a deterrent to feeding by Scolytus multistriatus. 12338

Bark vs foliage applications of insecticides for control of Psylla uncatoides on Acacia. 12499

BARLEY
Predominating strains of barley yellow dwarf virus in New York: changes during ten years. 12457

Outbreaks and new records. india. ergot on barley. 12466

The effect of two herbicides, bromoxynil and dicamba, on the transpiration of tartary buckwheat and barley. 12546

BATHYPLECTES CURCULIONIS
Parasitism of the alfalfa weevil in the Western Plains States from 1963 to 1966. 12486

BATS
Transmission experiments with bat rabies isolates: Responses of certain carnivores and rodents to rabies viruses from four species of bats. 12589

BAYER 9002
Therapeutic trials with Maretin in calves infected with Ostertagia and Cooperia. 12774

BEANS
Incidence of halo blight in Idaho. 12420

A new virulent form of Phaeoisariopsis griseola causing circular leaf spot of french beans. 12434

Effects of planting depth and asphalt mulch on Rhizoctonia root and hypocotyl rot of snapbean. 12441

BEAUVERIA BASSIANA
Experiments on the biological control of mosquitoes with the fungus Beauveria bassiana (Bals.) Vuill. (abstract). 12391

BEE POLLINATORS
Systemic insecticides as lygus bug controls compatible with bee pollination on alfalfa. 12493

BEER
Precipitation of bacitracin upon an inert, insoluble, inorganic support for use in animal feeds. patent 3,345,178. 12671

BENEFICIAL INSECTS
Dragonflies as beneficial insects of forest communities. 12313

Biological observations on Coleomegilla maculata and its role as a predator of the fall webworm. 12380

BENZENE
Juglone (5-hydroxy-1,4-naphthoquinone) from Carya ovata, a deterrent to feeding by Scolytus multistriatus. 12338

BENZYLADENINE
Some effects of supplying benzyladenine to leaves and plants inoculated with viruses. 12413

BERENIL
Treatment and chemical control of the brucellic abortion of cattle with 4,4'-diamidinodiazoaminobenzene. 12613

BESSA HARVEYI
Determination of premature larval drop and other causes of larch sawfly mortality. 12352

BIDRIN
Toxicity of five insecticides to several insect predators. 12358

BIOLOGICAL ASSAY
Toxicity of insecticides to house crickets and bioassay of treated soils in the laboratory. 12318

Statistical applications to repellency assay. (abstract). 12820

Bioassay of field treated soils to determine bioactivity and movement of insecticides. 12854

BIOLOGICAL CONTROL
Versuche zur biologischen Bekampfung der Staphylokokken-Mastitis (Experiments on biological control of staphylococcal mastitis). 12615

BIOLOGICAL CONTROL (INSECTS)
Control of fruit flies Dacus zonatus Saunders by gamma-rays. 12350

The suitability of a nematode (Dd-136) for the control of some pasture insects. 12372

Experiments on the biological control of mosquitoes with the fungus Beauveria bassiana (Bals.) Vuill. (abstract). 12391

Sources of alfalfa seed chalcid resistance in alfalfa. 12512

Control of the cabbage looper and corn earworm with nuclear polyhedrosis viruses. 12530

BIOLOGICAL CONTROL (WEEDS)
Recent advances in the control of soil fungi. 12474

BIOPSY
Vertebral biopsies in the diagnosis of bovine fluoride toxicosis. 12556

BIPHENYL
Determination of biphenyl in citrus fruits by thin layer chromatography and ultraviolet spectrophotometry. 12802

BIPYRIDYLIUM, 4,4'-
Herbicidal composition and method employing 4,4'-bipyridylium quaternary salts. patent 3,340,041. 12885

BIRD CONTROL
Chemical control of reproduction in confined populations of pigeons (Columba livia). 12821

BIRDS
Pasteurellosis in wild birds in Massachusetts. 12611

BIS(CHLOROMETHYL) DISULFIDE
Method of controlling soil fungi with bis(chloromethyl)disulfide. patent 3,360,430. 12429

BIS(1,2-DICHLOROETHYL) SULFONE
Method of killing nematodes with bis(1,2-dichloroethyl) sulfone, patent 3,362,870. 12531

BLACK SPOT (ROSA)
Host/parasite interaction in blackspot disease of roses caused by Diplocarpon rosae Wolf. 12458

BLACKBEAD
Response of four breeds of chickens and one breed of turkeys to experimental heterakis and histomonas infections. 12769

BLAST (RICE)
Spread of rice blast in small fields. 12416

BLOAT
Bloat in cattle. XIII. efficacy of molasses-salt blocks containing poloxalene in control of alfalfa bloat. 12715

BLOOD
Effects of repeated haemolymph withdrawals and of ligaturing the head on differential haemocyte counts of Rhodnius prolixus Stal. 12353

The use of plague morphology in the study of Newcastle disease virus. 12595

The presence of antibodies in the ovine serum inhibiting the hemagglutination by myxovirus parainfluenza. 12612

The blood picture in steers following oral dosing with Dictyocaulus viviparus and during a latent infection with virus pneumonia. 12630

Infectivity of Anaplasma marginale in bovine blood after prolonged freezing. 12717

Microdetermination of phosphorus. 12813

BLOOD PLASMA
Microdetermination of phosphorus. 12813

BLOOD SERUM
Effect of bovine coccidiosis on blood serum sodium and potassium levels in calves. 12614

Zinc deficiency in reproducing gilts fed a diet high in calcium and its effect on tissue zinc and blood serum alkaline phosphatase. 12628

Susceptibility of tissue culture cells to foot-and-mouth disease virus; concentration of bovine serum in culture medium. 12684

Changes in blood serum transaminase associated with lupine and larkspur poisoning in cattle. 12705

Microdetermination of phosphorus. 12813

BLUETONGUE VIRUS
Studies on bluetongue. III. comparison of two complement-fixation methods. 12574

Bluetongue of sheep and cattle: Past, present, and future. 12575

Transmission of attenuated and virulent bluetongue virus with Culicoides variipennis infected orally via sheep. 12616

Studies on bluetongue. VI. animal transmission studies. 12622

Bluetongue virus in sheep. intensification of clinical response by previous oral administration. 12654

Studies on bluetongue. v. detection of the virus in infected materials by immunofluorescence. 12698

BOATS
A low cost airboat for use in mosquito control. 12923

BODY FLUIDS
Microdetermination of phosphorus. 12813

BOLL ROT (COTTON)
Storage of boll rot organisms on infected cotton bolls for prolonged periods. 12414

BONE DISEASES
Osteochondritis dissecans in the humeral head of the dog; comparison of results achieved with conservative and surgical treatment. 12569

BORON PLUS CHROMIUM PLUS COPPER SALTS
Preventive measures for the protection of wood against Hylotrupes bajulus. 12354

BOTULISM
First observation of beta C botulism in swine in Senegal. 12606

BOVICOLA BOVIS
Controlling lice and chorioptic mange mites on dairy cattle. 12744

BOVICOLA OVIS
Sheep ectoparasite control. I. insecticides and application methods for keds and biting lice. 12743

BOVINE PAPULAR STOMATITIS VIRUS
Comparative investigations on stomatitis papulosa, pseudocowpox, and milkers' nodules virus strains. 12651

BREEDING
Problems of interaction and density in mosquitoes in relation to Aedes aegypti eradication. 12398

Current status of Third United States Army Aedes aegypti eradication program. 12403

BROADBEANS
Aspects of pea aphid nutrition. 12516

Darkness and the activity of diquat and paraquat on tomato, broad bean and sugar beet. 12544

BROCCOLI
1967 insecticide recommendations; insects of cabbage, broccoli, cauliflower, and brussels sprouts. 12519

Control of the cabbage looper and corn earworm with nuclear polyhedrosis viruses. 12530

BROMOXYNIL
The effect of two herbicides, bromoxynil and dicamba, on the transpiration of tartary buckwheat and barley. 12546

BROWN ROT (APPLES)
Antifungal phenolic acids in apple fruits after infection with Sclerotinia fructigena. 12426

BRUCELLA ABORTUS
Investigation into the usefulness of the non-agglutinogenic Brucella abortus adjuvant vaccine Duphavac N.A. in the control of bovine brucellosis. 12694

BRUCELLA ABORTUS VACCINES
Victory over brucellosis nears in california. 12583

BRUCELLOSIS
Victory over brucellosis nears in california. 12583

Treatment and chemical control of the brucellic abortion of cattle with 4,4'-diamidinodiazoaminobenzene. 12613

Brucellosis antigens. patent 3,342,684. 12650

Contagious bovine pleuropneumonia and the problems associated with its control. 12652

Epizootiology of brucellosis in a flock of sheep. 12653

Utilization of the card test in brucellosis eradication. 12675

Investigation into the usefulness of the non-agglutinogenic Brucella abortus adjuvant vaccine Duphavac N.A. in the control of bovine brucellosis. 12694

Brucellosis. definition of official vaccinate. 12723

BRUCHOPHAGUS RODDI
Sources of alfalfa seed chalcid resistance in alfalfa. 12512

BRUSSELS SPROUTS
1967 insecticide recommendations; insects of cabbage, broccoli, cauliflower, and brussels sprouts. 12519

BUCKWHEAT
The effect of two herbicides, bromoxynil and dicamba, on the transpiration of tartary buckwheat and barley. 12546

BUFFALOES

BUFFALOES
Salpingo-ovario-bursitis amongst buffaloes. 12641

The use of tissue culture rinderpest vaccine for Egyptian cattle and water buffaloes. 12709

BULLS
The experimental use of bull semen contaminated with Pseudomonas aeruginosa organisms. 12619

BUQUINOLATE
Buquinolate, a new broad spectrum coccidiostat. 12610

BURSITIS
Salpingo-ovario-bursitis amongst buffaloes. 12641

CABBAGE
1967 insecticide recommendations; insects of cabbage, broccoli, cauliflower, and brussels sprouts. 12519

CACOBA CACTELLA
A method of determining rate and time of egg deposition by insects. 12315

CALCIFICATION (PHYSIOLOGICAL)
Calcification, tanning, and the role of ecdyson in the formation of the puparium of the facefly, Musca autumnalis. 12337

CALCIUM
Influence of dietary magnesium on metabolism of calcium and magnesium in sheep. 12627

Zinc deficiency in reproducing gilts fed a diet high in calcium and its effect on tissue zinc and blood serum alkaline phosphatase. 12628

CALCIUM CHLORIDE
Comparative oviposition selection preference by Aedes dorsalis and Aedes nigromaculis to three inorganic salts in the laboratory. (abstract). 12405

CALCIUM NITRATE
Sclerotium rolfsii and its control on tomato and peanut. 12473

CALLOSOBRUCHUS MACULATUS
Neem seed as a protectant against bruchid Callosobruchus maculatus (Fabricius) infesting some leguminous seeds. 12783

CALVES
Systemic mycosis in neonatal calves. 12587

Observations on crooked calf disease. 12707

Lupine, a cause of crooked calf disease. 12708

Rates of hydrocortisone and corticosterone secretion in calves. 12731

Therapeutic trials with Maretin in calves infected with Ostertagia and Cooperia. 12774

CANADA
Activity and sequence of mosquito predators in woodland pools in Ontario. 12397

CANINE DISTEMPER
Changes in the nitrogen balance and serum proteins during an attack of distemper and coccidiosis in the dog. 12755

CANNED FOOD
Determination of 3-amino-1,2,4-triazole in crops. 12800

CAPILLARIA
Research note: Incidence of endoparasitism in a group of pigeons in the Chicago area. 12634

CAPTAN
A storage decay of Crownvetch (Coronilla varial "crowns" caused by Fusarium roseum and its control by fungicide dip treatments. 12776

CARBAMATES
Process for controlling spring dead spot on grass. patent 3,323,985. 12464

Insecticidal control of regulated populations of black cutworm on corn. 12477

Thin-layer chromatoggraphic determination of carbaryl (Sevin) in some foods. 12799

Insecticidal compositions containing carbamates of 5- and 6-membered hetero-sulfur compounds and method of controlling insects with same. patent 3,338,782. 12840

Pesticidal compositions of m-isopropylphenyl N-methyl-N-nitrosocarbamate. patent 3,345,256. 12881

Viscous agueous preparations. patent 3,341,319. 12883

Solvent system for formulating carbamates. patent 3,342,673. 12890

Halo-meta-isopropylphenyl n-methylcarbamates and pesticidal compositions. patent 3,341,401. 12891

Method of killing insects with 5,6,7,8-tetrahydro-1-naphthyl -N-methyl-carbamate. patent 3,341,404. 12901

CARBAMYLOXIMES
Pesticidal methods and compositions employing bicyclic carbamyloximes. patent 3,332,839. 12892

CARBANILIDES
Carbanilide compositions and methods of using same. patent 3,340,145. 12659

CARBARYL
Minimum number of insecticide applications for the control of the European corn borer on sweet corn in Quebec. 12490

Low-volume dusts for control of the cotton bollworm. 12502

Thin-layer chromatoggraphic determination of carbaryl (Sevin) in some foods. 12799

Improved infrared method for carbaryl (sevin) in commercial formulations. 12898

CARBOHYDRATES
Changes in the amounts of carbohydrates, phosphagen, and related compounds dnring the metamorphosis of the blowfly, Lucilia cuprina. 12326

CARBON BLACK
Agricultural mulch and herbicidal composition and method. patent 3,341,318. 12855

CARBON DIOXIDE
Respiration of the confnsed flour beetle in five atmospheres of varying C02:02 ratios. 12780

Respiration of confused flour beetle adults in C02 or N2 and after sublethal fumigation. 12781

CARBON DISULFIDE
Respiration of confused flour beetle adults in C02 or N2 and after sublethal fumigation. 12781

CARBON ISOTOPES
A technigue for labeling Ceratocystis ulmi with radiocarbon. 12456

Incorporation of radioactive amino acids by Coxiella burnetii and its host, the chick embryo. 12657

CARBON TETRACHLORIDE
Swine toxicosis associated with fumigated grain. 12571

Respiration of confused flour beetle adults in C02 or N2 and after sublethal fumigation. 12781

CARBONIC ANHYDRASE
Carbonic anhydrase in the house cricket, Acheta domesticus. 12333

CARBOPHENOTHION
Procedure for nine organothiophosphate pesticide residues on fruits and vegetables, using microcoulometric gas chromatography. 12810

CARCINOMA
Metastatic mammary tumours in the dog. i. clinico-pathological studies on mammary carcinomai. metastasierte Mammatumoren beim Hund. i. Klinisch-pathologische Untersuchungen uber Mammakarzinome. 12679

Metastatic mammary tumours in the dog. iI. clinico-

pathological studies on mammary sarcoma and carcino-sarcoma). Metastasierte Mammatumoren beim Hund. iI. Klinisch-pathologische Untersuchungen uber Sarkome und Karzinosarkome der Milchdruse. 12680

CARNITINE
Tbe formation of lipid-bound carnitine derivatives in the fat body of Phormia regina. 12363

CARYA
Juglone (5-bydroxy-1,4-napbthoquinone) from Carya ovata, a deterrent to feeding by Scolytus multistriatus. 12338

CATERPILLARS
An experimental spray program for integrated control of insects affecting scur cherry. 12513

Effects of organometallic compounds on Lepidoptera. 12528

CATS
Experimental feline infectious enteritis in tbe germfree cat. 12695

Feline infectious anemia recognized in Finland. 12719

Existence of infectious feline anaemia (Eperythrozoonosis of cat) in Madagascar. 12725

Ethylene glycol poisoning in dogs and cats. 12819

CATTLE
Vertebral biopsies in the diagnosis of bovine fluoride toxicosis. 12556

Effect of lincomycin hydrochloride upon experimental bovine coccidiosis. 12560

Pulmonary tovine tuberculosis in an owner and in his dairy herd. 12563

Ecologic aspects of listeriosis. 12570

Studies on bluetongue. iII. comparison of two complement-fixation metbods. 12574

8luetongue of sheep and cattle: Past, present, and future. 12575

Die Listeriose des Rindes; Scbrifttumsubersich. (Listeriosis of cattle; literature survey). 12576

Hypomagnesaemic tetany in cattle. i. incidence, aetiology, diagnosis and treatment. 12577

Rates of formation and absorption of cerebrospinal fluid in bovine hypovitaminosis A. 12578

Immunologic competence of thymectomized neonatal calves. 12580

Mycobacterium avium infection in cattlei A case series. 12582

Effect of diet or dietbylstilbestrol on fatty acid composition of bovine tissues. 12584

Kontrollierte 8ehandlungsversuche bei fremdkorperkranken Rindern mit dem Kafig-Magneten; Modell Rinderklinik Hanover (Controlled-treatment experiments with permanent magnets of foreign body diseased cattle (Hanover Cattle clinic model). 12585

In vitro agglutination of bovine erythrocytes infected with 8abesia argentina. 12594

Mucinase activity of Vibrio fetus. 12598

Streptomycin treatment of bovine carriers of Leptospira pomona. 12602

Acute baemorrhagic enteritis associated witb Welcbia perfringens in Zebu cattle in Senegal. 12605

Treatment and cbemical control of the brucellic abortion of cattle with 4,4'-diamidinodiazoaminobenzene. 12613

Effect of bovine coccidiosis on blood serum sodium and potassium levels in calves. 12614

Versuche zur biologiscben Bekampfung der Stapbylokokken-Mastitis (Experiments on biological control of staphylococcal mastitis). 12615

Ergot poisoning of cattle grazing Dallisgrass. 12621

Studies on bluetongue. vI. animal transmission studies. 12622

The blood picture in steers following oral dosing with Dictyocaulus viviparus and during a latent infection with virus pneumonia. 12630

Adenohypophyseal insufficiency in two cows with pregnancy toxemia. 12632

Potassium and its role in parturient paresis. 12636

Investigations on immunogenetics of ethanol-inactivated vaccines against Aujeszky's disease. 12642

Evaluation of an intravenous tuberculin test in cattle. 12646

Udder insufflation and its physiologic basis for treatment of parturient paresis in cattle. 12661

Isolation and identification of Clostridium hemolyticum in cattle in Florida. 12663

A half century of successful control of tbe bovine tuberculosis in Cambrai. 12669

A survey of abortions and long return intervals in dairy herds in tbe Huntly district. 12670

Patbogensis of leptospiral abortion in cattle. 12672

Utilization of the card test in brucellosis eradication. 12675

Acquired Pelger-Huet anomaly in cattle. 12681

Susceptibility of tissue culture cells to foot-and-mouth disease virus; concentration of bovine serum in culture medium. 12684

Contribution to tbe therapy of acetonemia of cattle. 12689

Dermatophilus infection. 12693

Investigation into the usefulness of tbe non-agglutinogenic Brucella abortus adjuvant vaccine Dupbavac N.A. in the control of bovine brucellosis. 12694

Interferon production with strain Sf-4 of Parainfluenza-3 virus. 12696

Studies on bluetongue. v. detection of the virus in infected materials by immunofluorescence. 12698

Experimental Streptococcus agalactiae mastitis in cattle. attempts to superimpose the organism in lactating glands harboring unrelated bacterial infections and in glands with experimentally induced sterile inflammation. 12700

Experimental Pseudomonas aeruginosa mastitis in cattle. 12701

Changes in blood serum transaminase associated with lupine and larkspur poisoning in cattle. 12705

Tbe use of tissue culture rinderpest vaccine for Egyptian cattle and water buffaloes. 12709

Immunofluorescence in the diagnosis of bovine fetal leptospirosis. 12712

8loat in cattle. xIII. efficacy of molasses-salt blocks containing poloxalene in control of alfalfa bloat. 12715

Infectivity of Anaplasma marginale in bovine blood after prolonged freezing. 12717

Hypoglycemia neonatal calves associated witb acute diarrhea. 12721

Brucellosis. definition of official vaccinate. 12723

Isolation and cbaracterization of bovine enteric viruses. 12726

CAULIFLCWER

A survey of the alimentary tract of cattle for Clostridium pertringens. 12729

The action of Mycoplasma gallisepticum upon chicken, rabbit, and cow erythrocytes. 12736

Control of the lone star tick on cattle. 12739

Inhibitive effect of Bacillus thuringiensis on the development of the face fly in cow manure. 12740

Horn fly and face fly ccntrcl on range cattle with aerial applicatiens of ultra-low-volume malathion sprays. 12741

Controlling lice and chorioptic mange mites on dairy cattle. 12744

Study on the cattle ticks in Guadelcupe and Martinique. iI. Pathogenic agents transmitted by ticks. 12748

Effects of bovine diet on oviposition, larval development, and pupation of the face fly, Musca autumnalis DeGeer. 12753

Untersuchungen uber das Vorkommen von Augenwurmern, Thelazien, beim Rind im Einzugshereich des Schlachthofes Hancver.(Investigaticns on the cccurrences of eyeworms (Thelazia spp) in cattle in the catchment area of Hanover slaughterhouse). 12754

Trials of simultaneous treatment of gastro enteritic strongylosis and monieziasis of cattle with a mixture of thiahendazole and niclosamide. 12757

Retention of DDT and DDE by the bovine. 12805

Diagncsis and treatment of adverse reactions in cattle treated for grubs with a systemic insecticide. 12822

Hemic concentrations of oximes given intravenously to cattle. 12824

CAOLIFLCWER
1967 insecticide recommendations; insects of cabbage, broccoli, cauliflcwer, and brussels sprouts. 12519

CECAL WCRMS
Response of four breeds of chickens and one breed of turkeys to experimental heterakis and histomonas infecticns. 12769

CELL WALL
Chemical ccmposition of cell envelopes from virulent and avirulent strains of Agrobacterium tnmefaciens. 12440

CELLS
The utilization of sugars by insect cells in culture. 12321

Electrophysiological studies of olfactory receptor cells in the antennae of female mosqnitoes (Aedes aegypti L.). 12355

Susceptibility of tissue culture cells to foot-and-mouth disease virus; concentration of bovine serum in culture medium. 12684

Antibody and cellular respònse in lambs immunized against Trichostrongylus axei. 12711

CENTRAL NERVOUS SYSTEM
Uptake of DDT by the American cockroach central nervous system. 12332

A study of dieldrin in the house fly central nervous system in relaticn to dieldrin resistance. 12373

CERATOCYSTIS ULMI
A technique for labeling Ceratocystis ulmi with radiocarbon. 12456

CERATOPHYLLUS GALLINAE
The action of the male genitalia during the copulation of the hen flea, Ceratophyllus gallinae (Schrank). 12349

CEREBROSPINAL FLOID
Rates of formation and absorption of cerebrospinal fluid in bovine hypcvitaminosis A. 12578

CESTODA
Trials of simultaneous treatment of gastro enteritic strongylosis and monieziasis of cattle with a mixtnre of thiahendazole and niclosamide. 12757

The vectors of Stilesia globipunctata (Rivolta, 1874) of sheep. 12759

CHAOBORUS
An evaluation of the bottom fauna and its role as fish food in Fern Lake, Washington. 12299

CHAOBORUS PUNCTIPENNIS
An ecological study of Chaoborus. 12302

CHELATION
Method and ccmpositions for enhancing the utilization of iron by mammals. patent 3,367,834. 12599

CHEMICAL CONTROL (INSECTS)
Some factors affecting kill of the stable fly, Stomoxys calcitrans (L.), with insecticidal thermal aerosols. (abstract). 12322

Mating behavior and population dynamics of the boll weevil as related to the sterile-male-technique of insect control. 12339

Toxicity of five insecticides to several insect predators. 12358

Control of mosquito larvae with Durshan insecticide applied as a thermal fog. (abstract). 12400

Insecticidal ccntrol of regulated populations of black cutworm on corn. 12477

Control of the iris borer with systemic insecticides. 12478

1967 insecticide recommendations; apple insect control (commercial). 12489

Minimum number of insecticide applications for the control of the European corn borer on sweet corn in Quebec. 12490

Systemic insecticides as lygns bug controls compatible with bee pollination on alfalfa. 12493

Bark vs foliage applications of insecticides for control of Psylla nncatoides on Acacia. 12499

Lesser cornstalk borer damage to peanut plants. 12501

Comparison of three rates of application of ultra-low-volnme azinphosmethyl in a reprodnction-diapause control program against the boll weevil. 12503

Laboratory tests with promising insecticides for control of adult and larval stable flies. 12508

Preliminary evalnation of soil insecticide for sugar-beet root maggot control. 12514

1967 insecticide recommendations; forage crops insects. 12518

1967 insecticide recommendations; insects of cabbage, broccoli, cauliflower, and brnssels sprnnts. 12519

1967 insecticide recommendations; insects of growing Christmas trees. 12520

1967 insecticide recommendations; pests of greenhonse tomatoes. 12521

1967 insecticide recommendations; insects of tomatoes. 12522

1967 insecticide recommendations; insects of Irish potatoes. 12523

Comparisons of soil and foliar applications of acaricides for control of the two-spotted spider mite on strawberries in southern California. 12525

Acylsulfamoylphenyl phosphate warm-blooded animal systemic insecticides. patent 3,341,409. 12738

Control of the lone star tick on cattle. 12739

Born fly and face fly control on range cattle with aerial

applications of ultra-low-volume malathion sprays. 12741

Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

Controlling lice and chorioptic mange mites on dairy cattle. 12744

Herbicide-insecticide formulations for control of the American dog tick. 12745

Method for control of arthropods. patent 3,356,568. 12747

1967 insecticide recommendations; control insects in and around poultry houses. 12752

Method for controlling insects and worms with organophosphorus cyclic sulfone compositions. patent 3,341,407. 12760

Insecticidal compositions containing carbamates of 5- and 6-membered hetero-sulfur compounds and method of controlling insects with same. patent 3,338,782. 12840

Herbicidal and insecticidal composition. patent 3,348,940. 12841

Alkylphosphonothioates. patent 3,326,749. 12856

Compositions and methods for repelling insects with diamino sulfenes. patent 3,361,622. 12872

Tricyclic ketone insecticides and process therefor. patent 3,341,860. 12884

Method of killing insects with 5,6,7,8-tetrahydro-1-naphthyl-N-methyl-carbamate. patent 3,341,404. 12901

Active toxicant O-(5-cyano-2-pyridyl)O,O-dialkyl phosphorothioate esters for controlling pests. patent 3,326,752. 12905

CHEMICAL CONTROL (NEMATODES)
Method of killing nematodes with bis(1,2-dichloroethyl) sulfone, patent 3,362,870. 12531

CHEMICAL CONTROL (PESTS)
Preventive measures for the protection of wood against Hylotrupes bajulus. 12354

Chemical control of reproduction in confined populations of pigeons (Columba livia). 12821

Metal phosphide pesticides. patent 3,372,088. 12866

Pesticidal ketone-malonate adducts. patent 3,341,406. 12869

Method of inhibiting bacteria with tetramic acid and derivatives thereof. patent 3,361,626. 12878

Agricultural chemical compositions. patent 3,333,942. 12879

Sulfinyl- and sulfonylpyridine pesticidal compositions and method of use. patent 3,371,011. 12889

Pesticidal methods and compositions employing bicyclic carbamyloximes. patent 3,332,839. 12892

CHEMICAL CONTROL (PLANT DISEASES)
Field experiments on sugar-beet downy mildew (Peronospora farinosa). 12421

Fungicidal control of Fabraea leafspot of pear. 12422

Fungicidal control of red thread disease of turfgrass in western Washington. 12430

Dimethyl sulfoxide inhibition and control of plant virus diseases. patent 3,334,012. 12433

Methyl arsine oxide method of controlling soil-borne pythium fungi. patent 3,338,780. 12461

Process for controlling spring dead spot on grass. patent 3,323,985. 12464

Method for control of powdery mildew. patent 3,323,986. 12468

Improved laboratory methods for rearing the citrus red mite. 12481

A storage decay of Crownvetch (Coronilla varia) "crowns" caused by Fusarium roseum and its control by fungicide dip treatments. 12776

Halogenated aromatic pesticidal compositions for controlling fungi, bacteria and nematodes. patent 3,331,735. 12845

Method and compositions for the control of plant pathogens with mercurial sulfolanes. patent 3,361,625. 12873

Method of controlling fungi with n-thio-monofluoro-dichloro-methyl imides. patent 3,341,403. 12894

CHEMICAL CONTROL (WEEDS)
Method of selectively destroying weeds. patent 3,332,768. 12545

Skeleton weed a serious threat to California agriculture. 12547

Influence of temperature on phytotoxicity of triazine herbicides to pine seedlings. 12548

Tolerance of flax to dicamba applied to the foliage and to the soil. 12549

Pyridazones and method for controlling vegetation. patent 3,326,660. 12551

Herbicidal and insecticidal composition. patent 3,348,940. 12841

Alkyd resins with herbicidal properties. patent 3,343,941. 12844

Acetyl substituted phenoxyacetamides and their use as herbicides. patent 3,371,106. 12846

Herbicidal compositions and process. patent 3,342,585. 12852

Agricultural mulch and herbicidal composition and method. patent 3,341,318. 12855

Destroying undesired vegetation with halobenzylcarbamates. patent 3,328,154. 12857

Controlling vegetation with azabicyclononanecarbothiolates. patent 3,343,942. 12858

Pesticidal compounds and their use. patent 3,371,107. 12859

Herbicidal clay formulation. patent 3,362,810. 12860

Pyridazone derivatives and their use as plant growth regulants. patent 3,336,130. 12863

Herbicidal substituted phenoxy acylamides. patent 3,326,942. 12867

3-arylaminopolyhalocycloalk-2-en-1-ones as herbicides. patent 3,360,359. 12868

Herbicidal composition and method. patent 3,330,643. 12876

Method for controlling plant growth. patent 3,326,658. 12877

Viscous aqueous preparations. patent 3,341,319. 12883

Herbicidal composition and method employing 4,4'-bipyridylium quaternary salts. patent 3,340,041. 12885

Method of controlling plant growth. patent 3,328,156. 12886

Herbicidal methods and compositions employing 3,4-dichloro-phenyl dimethyl and methylethyl ureas. patent 3,343,943. 12888

Herbicidal composition and method. patent 3,326,661. 12893

Herbicidal 2-methylthio-s-triazines. patent 3,326,914. 12896

Method of destroying undesired plant growth. patent 3,351,456. 12897

Non-selective herbicidal method. patent 3,360,358. 12899

CHEMICALS

CHEMICALS
Chemicals tested as space repellents against yellow-fever mosquitoes. i. esters. 12341

CHEMORECEPTORS
Uptake of DDT by the American cockroach central nervous system. 12332

CHEMOSTERILANTS
Metabolism of hempa uniformly labeled with C14 in male house flies. 12320

Mating behavior and population dynamics of the boll weevil as related to the sterile-male-technique of insect control. 12339

Resistance in Aedes aegypti to chemosterilants. effect of apholate selection on resistance to apholate, tepa, and metepa. 12368

Sterile-male releases control populations of Drosophila melanogaster in cage tests. 12381

Field experiments with sterile males for eradication of the boll weevil. 12483

Chemosterilization of male European corn borers by feeding of tepa and apholate to larvae. 12488

Suppression of Drosophila melanogaster in tomato field plots by the release of flies sterilized by apholate. 12505

Chemical control of reproduction in confined populations of pigeons (Columba livia). 12821

Purification and analysis of hempa by chromatographic techniques. 12908

CHENOPODIUM
Viruses mechanically transmitted from pear. 12449

CHICKENS
Dietary sodium and potassium in infectious bronchitis of chickens. 12592

Detection of erythrocyte bound globulin in Plasmodium gallinaceum infected chickens. 12617

Mycoplasma gallisepticum in the respiratory tract of the fowl. 12666

CHICKS
The effects of vitamin D in chicks. 12573

Detection of chick edema factor in fats and fatty acids by electron capture gas chromatography. 12626

CHICORY
Rhizopus rot of chicory in Punjab, India. 12431

CHILO ZONELLUS
Effect of host plants on the survival, development and behaviour of Chilo zonellus (Swinhoe) under laboratory conditions. 12496

CHIRONOMIDAE
Thiokol swamp spryte equipped with automatic compressed air spraying units for applying granule and liquid insecticides. 12917

CHLORDANE
Field weathering of toxaphene and chlordane. 12807

CHLORINATED HYDROCARBONS
Control of endoparasites of animals. patent 3,344,021. 12772

Residues in foods. (Chlorinated pesticides). 12798

Report on chlorinated insecticides and miticides. 12801

Note on some operating parameters of a halogen detector constructed and utilized for gas-liquid chromatography. 12921

CHLORO-2-CYCLOPENTYLPHENOL, 4-
Bactericidal 4-chloro-2-cyclopentylphenol. patent 3,323,988. 12903

CHLORO-5,5-DINITRO-1,2-PENTANEDIOL, 5-
Polynitro halo compounds useful as antibiotics, fungicides and explosives. patent 3,359,334. 12871

CHLOROBENZYL ISOTHIOCYANATE, PARA-
Method of disinfecting seeds. patent 3,366,538. 12472

CHLOROPHYLLS
Behavior of the spotted alfalfa aphid,Therioaphis maculata (Buckton), on resistant and susceptible alfalfas. 12497

CHOLESTANOL
The conversion of cholestanone to cholestanol by the housefly, Musca domestica L. 12330

CHOLESTANONE
The conversion of cholestanone to cholestanol by the housefly, Musca domestica L. 12330

CHONDRILLA JUNCEA
Skeleton weed a serious threat to California agriculture. 12547

CHRISTMAS TREES
1967 insecticide recommendations; insects of growing Christmas trees. 12520

CHROMAPHIS JUGLANDICOLA
Population dynamics of the walnut aphid, Chromaphis juglandicola (Kalt) in northern California. 12305

CHROMATOGRAPHY
Metabolism of hempa uniformly labeled with C14 in male house flies. 12320

Effect of diet or diethylstilbestrol on fatty acid composition of bovine tissues. 12584

Detection of chick edema factor in fats and fatty acids by electron capture gas chromatography. 12626

Chromatographic purification of influenza virus with brushite modified by autoclaving. 12648

Study of the films ready for use in the chromatography of aflatoxins. 12686

Thin-layer chromatoggraphic determination of carbaryl (Sevin) in some foods. 12799

Determination of biphenyl in citrus fruits by thin layer chromatography and ultraviolet spectrophotometry. 12802

Determination of nicotine residues on foods. 12808

Procedure for nine organothiophosphate pesticide residues on fruits and vegetables, using microcoulometric gas chromatography. 12810

Programmed temperature gas chromatography of pesticides, using electron capture and thermionic detectors. 12849

Gas chromatographic determination of residues of organophosphorus pesticides with a modified flame ionization detector. 12865

Gas chromatographic analysis of heptachlor content of formulations. 12904

Purification and analysis of hempa by chromatographic techniques. 12908

Note on some operating parameters of a halogen detector constructed and utilized for gas-liquid chromatography. 12921

CHROMIUM ISOTOPES
e-59 and CR-51 studies of the effect of partial-body X-irradiation on Erythropoiesis in beagles. 12685

CHRYSOPA CARNEA
Toxicity of five insecticides to several insect predators. 12358

Experimental induction and elimination of adult diapanse and autumnal coloration in Chrysopa carnea (Neuroptera). 12360

CHRYSOPIDAE
The flight activity of some British Hemerobiidae and Chrysopidae, as indicated by suction-trap catches. 12367

CICADELLIDAE
Three Cicadellid-species injuricus to agriculture (Hemiptera). 12491

CICADIDAE
The derivation of the motor command to the spiracles of the locust. 12364

CICINDELIDAE
Bionomics and zoogeography of tiger beetles of saline habitats in the central United States (Coleoptera: Cicindelidae). 12307

CIOURIN
Controlling lice and chorioptic mange mites on dairy cattle. 12744

CIRRHOSIS
Histological and electron-microscopic studies on experimental liver cirrhosis in ducklings produced by aflatoxin. 12645

CITRON
Transmission of exocortis virus of citrus to herbaceous plants. 12471

CITRUS
Improved laboratory methods for rearing the citrus red mite. 12481

Citrus nematode found widespread in Florida. 12542

Determination of biphenyl in citrus fruits by thin layer chromatography and ultraviolet spectrophotometry. 12802

CLAVICEPS PURPUREA
Outbreaks and new records. india. ergot on barley. 12466

CLAY MINERALS
Herbicidal clay formulation. patent 3,362,810. 12860

CLIMATE
Climate and potential range of distribution of stored-product mites in Japan. 12788

CLIMBING PLANTS
Method for killing potato vines with ammonia. patent 3,331,675. 12552

CLOSTRIDIUM BOTULINUM
First observation of beta C botulism in swine in Senegal. 12606

CLOSTRIDIUM HEMOLYTICUM
Isolation and identification of Clostridium hemolyticum in cattle in Florida. 12663

CLOSTRIDIUM PERFRINGENS
A survey of the alimentary tract of cattle for Clostridium perfringens. 12729

COBALT
Gamma irradiation of pupae of the tobacco budworm. 12485

COCCIDIOSIS
Effect of lincomycin hydrochloride upon experimental bovine coccidiosis. 12560

Effect of bovine coccidiosis on blood serum sodium and potassium levels in calves. 12614

Research note: Incidence of endoparasitism in a group of pigeons in the Chicago area. 12634

Changes in the nitrogen balance and serum proteins during an attack of distemper and coccidiosis in the dog. 12755

Amprolium for control of experimental coccidiosis in lambs. 12762

COCCIDIOSTATS
Buquinolate, a new broad spectrum coccidiostat. 12610

Coccidiostatic compositions and methods of using same. patent 3,351,525. 12764

Compositions and methods for the treatment and prevention of coccidiosis in poultry. patent 3,337,401. 12768

Untersuchungen uber die Vertraglichkeit der Coccidiostatica Amprolium und Zoalen. (Investigations on the tolerance of coccidiostats amprolium and zoalene.). 12818

COCCINELLA 7-PUNCTATA
The effects of different aphid foods on Adalia bipunctata L and Coccinella 7-punctata L. 12312

COD LIVER OIL
Research note: Dietary influence of a cod liver oil fraction on avian lymphocytoma. 12638

COFFEE
Collar canker of coffee trees in Guatemala. 12460

COLD
Effect of minus 29 degrees F on overwintering populations of the balsam woolly aphid in North Carolina. 12308

Cold-hardiness of Empoasca fabae and some related species. 12329

COLEOMEGILLA MACULATA
Biological observations on Coleomegilla maculata and its role as a predator of the fall webworm. 12380

COLEOSPORIUM
Rusts on Indian forest trees. 12415

COLLETOTRICHUM ORBICULARE
Interaction of race I and race II of Colletotrichum orbiculare on watermelon. 12445

COLOR
Experimental induction and elimination of adult diapause and autumnal coloration in Chrysopa carnea (Neuroptera). 12360

COLORIMETRY
Note on the colorimetric method for malathion in formulations containing emulsifiers. 12874

COMPLEMENT FIXATION
Studies on bluetongue. iII. comparison of two complement-fixation methods. 12574

CONFERENCES
American Veterinary Medical Association. scientific proceedings of the 104th annual meeting, July 9-13, 1967, Dallas, Texas. 12559

CONIDIA
A technique for labeling Ceratocystis ulmi with radiocarbon. 12456

CONOTRACHELUS NENUPHAR
An experimental spray program for integrated control of insects affecting sour cherry. 12513

COOPERIA
Therapeutic trials with Maretin in calves infected with Ostertagia and Cooperia. 12774

COPPER
Cardiovascular system in naturally occurring copper deficiency and swayback in sheep. 12590

CORN
A simple method for mass rearing of the seed-corn maggot, Hylemya platura Meigen (Diptera, Anthomyiidae). 12361

A strain of Pseudomonas lapsa isolated from corn seeds causing bacterial stalk rot in India. 12453

Occurrence of a mosaic disease of sweet sorghum in four southern states. 12475

Insecticidal control of regulated populations of black cutworm on corn. 12477

Effect of host plants on the survival, development and behaviour of Chilo zonellus (Swinhoe) under laboratory conditions. 12496

2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one (dimboa), an active agent in the resistance of maize to the European corn borer. 12498

CORTICOSTERONE

Reaction of corn to the feeding of the wheat curl mite. 12510

CORTICOSTERONE
Rates of hydrocortisone and corticosterone secretion in calves. 12731

COSTS
Pesticides, their use and misuse. 12928

COTTON
Five new phytoseid mites from U.a.r., with collection notes on three other species (Acarina: Phytoseiidae). 12298

Mating behavior and population dynamics of the boll weevil as related to the sterile-male-technique of insect control. 12339

Low-volume aerial spraying of several insecticides for cotton-insect control. 12476

Field experiments with sterile males for eradication of the boll weevil. 12483

Low-volume dusts for control of the cotton bollworm. 12502

Relationship between the tarnished plant bug and deformed cotton plants. 12524

Successive germination of bollworms on cotton in field cages. 12526

Method of promoting maturation of cotton plants. patent 3,352,660. 12831

Defoliation process employing 3-amino-3-carboxypropyl methyl sulfoximine hydrogen sulfate. patent 3,323,895. 12839

COTTON BOLLS
Storage of boll rot organisms on infected cotton bolls for prolonged periods. 12414

COUMAPHOS
Control of the lone star tick on cattle. 12739

Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

Controlling lice and chorioptic mange mites on dairy cattle. 12744

Versuche zur Beeinflussung von Acetylcholin, Neguvon und Asuntol durch Atropin (Experiments for influencing acetylcholine, neguvon and asuntol with atropine). 12815

COWPOX VIRUS
Comparative investigations on stomatitis papulosa, pseudocowpox, and milkers' nodules virus strains. 12651

COXIELLA BURNETII
Incorporation of radioactive amino acids by Coxiella burnetii and its host, the chick embryo. 12657

CRINKLE (STRAWBERRIES)
A sensitive strawberry virus indicator clone of Fragaria vesca from the USSR. 12444

CROP LOSSES
Incidence of halo blight in Idaho. 12420

Susceptibility of common and durum spring wheats to barley yellow dwarf virus. 12428

Identification of air pollution damage to agricultural crops. 12795

CROP ROTATION
Sclerotium rolfsii and its control on tomato and peanut. 12473

CROP VARIETIES
Effect of plant size on resistance to snowmold of winter wheat. 12419

Fungicidal control of Pabraea leafspot of pear. 12422

Distribution and prevalence of virulence for Victoria oats in Ustilago avenae. 12435

Race population dynamics in Ustilago avenae as related to the persistence of loose smut in oats. 12436

Interaction of race I and race II of Colletotrichum orbiculare on watermelon. 12445

Reaction of corn to the feeding of the wheat curl mite. 12510

The effect of growth retarding and growth promoting substances on flower bud formation in cultivars of the apple, Malus sylvestris, Mill. 12827

CROP YIELDS
Influence of dapple apple and stem pitting viruses on tree growth and fruit yields over a fourteen-year period. 12455

Relationship between the tarnished plant bug and deformed cotton plants. 12524

Observations on the effect of sawdust on incidence of root knot and on yield of okra and tomatoes in nematode-infested soil. 12541

The effect of two herbicides, bromoxynil and dicamba, on the transpiration of tartary buckwheat and barley. 12546

A contribution to the study of control of weeds in soybean stands. 12554

CROWNVETCH CORONILLA
A storage decay of Crownvetch (Coronilla varia) "crowns" caused by Fusarium roseum and its control by fungicide dip treatments. 12776

CUERNA COSTALIS
Distribution of phony peach vectors in South Carolina. 12495

CULEX
Seasonal mosquito distribution and abundance in Central Luzon. (abstract). 12393

CULEX FATIGANS
Mosquito control agents derived from petroleum hydrocarbons: laboratory effectiveness. (abstract). 12399

CULEX PIPIENS
Experiments on the biological control of mosquitoes with the fungus Beauveria bassiana (Bals.) Vuill. (abstract). 12391

World-wide mosquito control, a growing public health need. 12404

Field developmental studies on Culex pipiens quinquefasciatus reared in natural, dairy barn wash and sewage effluent waters. (abstract). 12408

Laboratory and field studies on mosquito control in waste disposal lagoons in Louisiana. (abstract). 12409

CULEX PIPIENS QUINQUEFASCIATUS
Attractant and stimulant factors for oviposition of Culex pipiens fatigans in natural breeding sites. 12351

CULEX QUINQUEFASCIATUS
Encephalitis surveillance in Harris County, Texas. 12388

CULEX TARSALIS
Experiments on the biological control of mosquitoes with the fungus Beauveria bassiana (Bals.) Vuill. (abstract). 12391

Insecticide tolerance in Culex tarsalis larvae in California. (abstract). 12411

CULICIDAE
Mosquito control on Smith Mountain reservoir by pumped storage water level management. 12340

Mosquito control is compatible with and beneficial to agriculture. 12394

Control of mosquito larvae with Dursban insecticide applied as a thermal fog. (abstract). 12400

Mosquito control and the California Water Plan. 12406

Statistical applications to repellency assay. (abstract). 12820

Vehicle mounted aspirators. 12911

Automatic water metering machine for mosquito larvicide tests. 12914

Thiokol swamp spryte equipped with automatic compressed air spraying units for applying granule and liquid insecticides. 12917

The helicopter as a new tool in mosquito control program of the Merced County abatement district. (abstract). 12919

A low cost airboat for use in mosquito control. 12923

CULICOIDES VARIIPENNIS
Blnetongue of sheep and cattle: Past, present, and future. 12575

Transmission of attenuated and virulent bluetongue virus with Culicoides variipennis infected orally via sheep. 12616

CULTURAL CONTROL (INSECTS)
Ecology and control of Leptoconops kerteszi biting gnats in southern California. (abstract). 12336

CULTURE MEDIA
The utilization of sugars by insect cells in culture. 12321

Storage of boll rot organisms on infected cotton bolls for prolonged periods. 12414

Infectious bronchitis virus interference with Newcastle disease virus in monolayers of chicken kidney cells. 12564

Effect of incubation temperature and serum content in agar overlay on plaque production by foot-and-mouth disease virus. 12579

Replication of infectious laryngotracheitis virus in chicken kidney cell culture. 12662

Susceptibility of tissue culture cells to foot-and-mouth disease virus; concentration of bovine serum in culture media. 12684

Isolation and characterization of bovine enteric viruses. 12726

CUSCUTA
Transmission of exocortis virus of citrus to herbaceous plants. 12471

CUSCUTA CAMPESTRIS
Host range, characteristics, and purification of plum line pattern virus. 12450

CUSCUTA SUBINCLUSA
Host range, characteristics, and purification of plum line pattern virus. 12450

CYANOISOPROPYL 2,6-DICHLOROBENZOATE, ALPHA-
Pesticidal compounds and their use. patent 3,371,107. 12859

CYCLOALKANE CARBOXAMIDES
Method of controlling plant growth. patent 3,328,156. 12886

CYTOGENETICS
Cytogenetic studies in canine lymphosarcoma. 12566

CYTOSPORA
Cytospora canker on sweet cherry in New York State: association with winter injury and pathogenicity to other species. 12438

D, 2,4-
Herbicide-insecticide formulations for control of the American dog tick. 12745

DACTYLONCTUS ABBROSIAE
Occurrence of a mosaic disease of sweet sorghum in four southern states. 12475

DACUS ZONATUS
Control of fruit flies Dacus zonatus Saunders by gamma-rays. 12350

DAIRY BARNS
Field developmental studies on Culex pipiens quinquefasciatus reared in natural, dairy barn wash and sewage effluent waters. (abstract). 12408

DAIRY CATTLE
Effect of thyroprotein and a low-energy ration on removal of DDT from lactating dairy cows. 12809

DAIRY PRODUCTS
Residues in foods. (Chlorinated pesticides). 12798

DAPPLE (APPLES)
Influence of dapple apple and stem pitting viruses on tree growth and fruit yields over a fourteen-year period. 12455

DDE
Retention of DDT and DDE by the bovine. 12805

DDT
Uptake of DDT by the American cockroach central nervous system. 12332

WARF anti-resistant: DDT selection and house fly cross-resistance. 12384

Low-volume aerial spraying of several insecticides for cotton-insect control. 12476

Minimum number of insecticide applications for the control of the European corn borer on sweet corn in Quebec. 12490

Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

Herbicide-insecticide formulations for control of the American dog tick. 12745

Some insecticidal trials for the protection of til seeds in storage. 12785

Pesticides and the soil fauna; effects of Aldrin and DDT in an arable field. 12803

Retention of DDT and DDE by the bovine. 12805

Field weathering of toxaphene and chlordane. 12807

Effect of thyroprotein and a low-energy ration on removal of DDT from lactating dairy cows. 12809

Toxicity of DDT, dieldrin, malathion and fenthion to Rhodnius prolixus in the laboratory. 12817

A simple laboratory method for testing the susceptibility of larvae of Simulium meavei complex to insecticides. 12823

DEFICIENCY DISEASES
Cardiovascular system in naturally occurring copper deficiency and swayback in sheep. 12590

Influence of dietary magnesium on metabolism of calcium and magnesium in sheep. 12627

Zinc deficiency in reproducing gilts fed a diet high in calcium and its effect on tissue zinc and blood serum alkaline phosphatase. 12628

Supplying at least about 4 percent iron and a sweetening agent for the prevention of iron-deficiency anemia in baby pigs. patent 3,332,778. 12732

DEFOLIANTS
Changes in composition of potato tubers following applications of defoliants. 12837

Defoliation process employing 3-amino-3-carboxypropyl methyl sulfoximine hydrogen sulfate. patent 3,323,895. 12839

DELPHINIDM
Changes in blood serum transaminase associated with lupine and larkspur poisoning in cattle. 12705

DEMETON
Toxicity of five insecticides to several insect predators. 12358

DENDROCTONUS BREVICOMIS
Methods of sexing live adult western pine beetles. 12310

DENGUE (MAN)
Dengue fever in a Puerto Rican community. 12401

DEOXYRIBONUCLEIC ACID

DEOXYRIBONUCLEIC ACID
Basic biological characteristics of Mycoplasma. 12656

DERMACENTOR VARIABILIS
Herbicide-insecticide formulations for control of the American dog tick. 12745

DERMATITIS
Low incidence of staphylococcal dermatitides in animals with high incidence of Staphylococcus aureus. 3. Preliminary study of laboratory animals. 12624

DERMATOPHILUS
Dermatophilus infection. 12693

DETERGENTS
Effect of detergents and inorganic salts in water on the persistence and movement of insecticides in soils. 12797

DIABROTICA UNDECIMPUNCTATA
Some environmental factors affecting feeding, oviposition, and survival of the southern corn rootworm. 12480

DIAGNOSIS
A preliminary evaluation of serologic tests for equine infecticus anemia. 12601

A rapid screening test for detecting Salmonella typhimurium infection in poultry. 12609

Clinical examination and diagnosis of the diseased equine foot. 12667

The challenge of field diagnosis and control of equine infectious anemia. 12676

Introductory remarks on laboratory support in equine infectious anemia diagnosis. 12677

DIALKYL S-(2-HALO-1-(N-PHTHALIMIDO)ETHYL) PHOSPHORODITHIOATE
O,O-dialkyl S-(2-halo-1-(N-phthalimido)ethyl) phosphorodithioates and phosphorothioates as insecticides. patent 3,355,353. 12887

DIAMINO SULFENES
Compositions and methods for repelling insects with diamino sulfenes. patent 3,361,622. 12872

DIAPAUSE
Strain-gauge transducer studies on intratracheal pressure and pupal length during discontinuous respiration in diapausing silkworm pupae. 12317

Termination of diapause in the cereal leaf beetle by hormones. 12323

Influence of light on diapause in the boll weevil. i. dependence of diapause response on the spectral composition of the light used to extend the photoperiod. 12346

Experimental induction and elimination of adult diapause and autumnal coloration in Chrysopa carnea (Neuroptera). 12360

DIAPRANIA WITIDALIS
Insect abundances on tomatoes and squash mulched with aluminum and plastic sheetings. 12529

DIARRHEA
Hypoglycemia neonatal calves associated with acute diarrhea. 12721

DIASPIDIDAE
Response of pineapple orange trees to selected petroleum oil fractions. 12816

DIATRAEA SACCHARALIS
The relationship of arthropod predators to crop damage inflicted by the sugarcane borer. 12511

DIAZINON
Toxicity of insecticides to house crickets and bioassay of treated soils in the laboratory. 12318

Factors affecting the toxicity of diazinon Musca domestica L. 12343

WARF anti-resistant: DDT selection and house fly cross-resistance. 12384

Genetic analysis of non-recessive factors of resistance to diazinon in the SKA strain of the housefly (Musca domestica L.). 12385

Control of the lone star tick on cattle. 12739

Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

Controlling lice and chorioptic mange mites on dairy cattle. 12744

Bioassay of field treated soils to determine bioactivity and movement of insecticides. 12854

DIAZOXON
Factors affecting the toxicity of diazinon Musca domestica L. 12343

DIBROMO-3-CHLOROPROPANE, 1,2-
Reduction of root knot of tomatoes with crop residue amendments in field experiments. 12537

DICAMBA
The effect of two herbicides, bromoxynil and dicamba, on the transpiration of tartary buckwheat and barley. 12546

Tolerance of flax to dicamba applied to the foliage and to the soil. 12549

DICHLOROPHENYL)-CYCLOPROPANE CARBOXAMIDE, N-(3',4'-
Herbicidal compositions and process. patent 3,342,585. 12852

DICHLOROPHENYL)-1-ETHYL-3-METHYLUREA, 1(3,4-
Herbicidal methods and compositions employing 3,4-dichloro-phenyl dimethyl and methylethyl ureas. patent 3,343,943. 12888

DICHLOROPHENYL)-1,3-DIMETHYLUREA, 1-(3,4-
Herbicidal methods and compositions employing 3,4-dichloro-phenyl dimethyl and methylethyl ureas. patent 3,343,943. 12888

DICHLOROPROPENE, 1,3-
Reduction of root knot of tomatoes with crop residue amendments in field experiments. 12537

DICTYOCAULUS VIVIPARUS
The blood picture in steers following oral dosing with Dictyocaulus viviparus and during a latent infection with virus pneumonia. 12630

DIELDRIN
A study of dieldrin in the house fly central nervous system in relation to dieldrin resistance. 12373

Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

Some insecticidal trials for the protection of til seeds in storage. 12785

Ultrasonic extraction of insecticides. i. comparison of extraction methods and solvent systems over three time intervals. 12796

Toxicity of DDT, dieldrin, malathion and fenthion to Rhodnius prolixus in the laboratory. 12817

DIET
Effect of diet or diethylstilbestrol on fatty acid composition of bovine tissues. 12584

Effect of dietary organic phosphorus on magnesium metabolism in sheep. 12608

Influence of dietary magnesium on metabolism of calcium and magnesium in sheep. 12627

Zinc deficiency in reproducing gilts fed a diet high in calcium and its effect on tissue zinc and blood serum alkaline phosphatase. 12628

Research note: Dietary influence of a cod liver oil fraction on avian lymphocytoma. 12638

Effect of oat hulls and other oat fractions on the development of gastric ulcers in swine. 12660

DIETHYLCARBAMAZINE
Diethylcarbamazine in filariasis control. 12640

DIETHYLSTILBESTROL
Effect of diet on diethylstilbestrol on fatty acid composition of bovine tissues. 12584

DIHYDROXY-7-METHOXY-1,4-BENZOXAZIN-3-ONE, 2,4-
2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one (dimboa), an active agent in the resistance of maize to the European corn borer. 12498

DIMETHOATE
Control of the iris borer with systemic insecticides. 12478

Systemic insecticides as lygus bug controls compatible with bee pollination on alfalfa. 12493

Bark vs foliage applications of insecticides for control of Psylla uncatoides on Acacia. 12499

Dimethoate residues in eggs and tissues of laying hens. 12811

DIMETHYL SULFOXIDE
Dimethyl sulfoxide inhibition and control of plant virus diseases. patent 3,334,012. 12433

Method of stimulating plant growth. patent 3,361,555. 12829

DIMETHYLDITHIOPHOSPHORIC ESTER, O,O-
Method for control of arthropods. patent 3,356,568. 12747

DIMETILAN
WARF anti-resistant: DDT selection and house fly cross-resistance. 12384

DIPLOCARPON ROSAE
Host/parasite interaction in blackspot disease of roses caused by Diplocarpon rosae Wolf. 12458

DIPTERA
Government Pest Infestation Laboratory (stored products and household pests). annual report, 1966. 12782

DIQUAT
Darkness and the activity of diquat and paraquat on tomato, broad bean and sugar beet. 12544

DIROFILARIA IMMITIS
Diagnosis, treatment, and preventive therapy for heartworms. 12763

DISULFOTON
Control of the iris borer with systemic insecticides. 12478

DITHIOCARBAMATES
Process for controlling spring dead spot on grass. patent 3,323,985. 12464

Method for control of powdery mildew. patent 3,323,986. 12468

DIVERTICULAR HERNIA
Epiphrenic diverticula of the esophagus in a dog. 12643

DODINE
An experimental spray program for integrated control of insects affecting sour cherry. 12513

DOGS
Cytogenetic studies in canine lymphosarcoma. 12566

Osteochondritis dissecans in the humeral head of the dog; comparison of results achieved with conservative and surgical treatment. 12569

Epiphrenic diverticula of the esophagus in a dog. 12643

Cholelithiasis in a dog. 12674

Metastatic mammary tumours in the dog. i. clinico-pathological studies on mammary carcinomai. metastasierte Mammatumoren beim Hund. i. Klinisch-pathologische Untersuchungen uber Mammakarzinome. 12679

Metastatic mammary tumours in the dog. ii. clinico-pathological studies on mammary sarcoma and carcino-sarcoma). Metastasierte Mammatumoren beim Hund. ii. Klinisch-pathologische Untersuchungen uber Sarkome und Karzinosarkome der Milchdruse. 12680

Spontaneous pyelonephritis in dogs. 12683

e-59 and CR-51 studies of the effect of partial-body X-irradiation on Erythropoiesis in beagles. 12685

Heredity of retinal dysplasia in Bedlington Terriers. 12697

The effect of dose rate on the acute radiation Syndrome in the beagle, with special consideration for the hema-topoietic system. 12735

Changes in the nitrogen balance and serum proteins during an attack of distemper and coccidiosis in the dog. 12755

Diagnosis, treatment, and preventive therapy for heartworms. 12763

Versuche zur Beeinflussung von Acetylcholin, Neguvon und Asuntol durch Atropin (Experiments for inflnencing acetylcholine, neguvon and asuntol with atropine). 12815

Ethylene glycol poisoning in dogs and cats. 12819

Die Propanidid, Epontol WZ, Narkose beim Hund. (Propanidid (Epontol WZ) narcosis of dog). 12828

DOLICHOPODIDAE
Some distinctions between the larvae and pupae of the Empididae and Dolichopodidae (Diptera). 12331

DOSAGE
The effect of dose rate on the acute radiation Syndrome in the beagle, with special consideration for the hema-topoietic system. 12735

DOWNY MILDEW (SUGAR BEETS)
Field experiments on sugar-beet downy mildew (Peronospora farinosa). 12421

DROSOPHILA
Flight in Drosophila. ii. variations in stroke parameters and wing contour. 12379

DROSOPHILA HYDEI
An autoradiographic study of RNA synthesis in isolated salivary glands of Drosophila hydei. 12309

DROSOPHILA MELANOGASTER
Virus-like particles in insect cells of three types. 12334

Sterile-male releases control populations of Drosophila melanogaster in cage tests. 12381

Suppression of Drosophila melanogaster in tomato field plots by the release of flies sterilized by apholate. 12505

DRUG RESISTANT MICROORGANISMS
Microbial persistence and latent infection. 12665

DRUG THERAPY
Diethylcarbamazine in filariasis control. 12640

Dermatophilus infection. 12693

Trials of simultaneous treatment of gastro enteritic strongylosis and monieziasis of cattle with a mixture of thiabendazole and niclosamide. 12757

DRUGS
Anti-microbial therapeutics consisting of nitrofurantoin, tetracycline, and D-glucosamine. patent 3,328,258. 12864

DUCKS
Histological and electron-microscopic studies on experi-ental liver cirrhosis in ducklings produced by aflatoxin. 12645

DURSBAN
Control of mosquito larvae with Dursban insecticide applied as a thermal fog. (abstract). 12400

Laboratory and field studies on mosquito control in waste disposal lagoons in Louisiana. (abstract). 12409

DDSTING

DUSTING
Low-volume dusts for control of the cotton hollworm. 12502

Thiokcl swamp spryte eguipped with automatic compressed air spraying units fcr applying granule and liguid insecticides. 12917

DYTISCIDAE
Activity and seguence of mosquito predators in woodland pools in Ontario. 12397

ECDYSONE
Calcification, tanning, and the role of ecdyson in the formaticn of the puparium of the facefly, Musca autumnalis. 12337

ECOLCGY
Ecological factors influencing the efficacy of mosquito contrcl in irrigated pastures in California. (abstract). 12396

Ecologic aspects of listericsis. 12570

EDEMA
Detection of chick edema factor in fats and fatty acids by electron capture gas chromatography. 12626

EDDCATION
Pesticide safety education. 12924

EGGPLANT
Five new phytoseid mites from U.a.r., with collection notes on three cther species (Acarina: Phytoseiidae). 12298

Three Cicadellid-species injurious to agricultnre (Hemiptera). 12491

EGGS
A method for stndying microbial penetration through the outer structures of the avian egg. 12794

Dimethoate residues in eggs and tissnes of laying hens. 12811

EGYPT
Five new phytoseid mites from D.a.r., with collection notes on three other species (Acarina: Phytoseiidae). 12298

EIMERIA
Buguinolate, a new hroad spectrum coccidiostat. 12610

ELASMOPALPOS LIGNOSELLUS
Lesser cornstalk borer damage to peanut plants. 12501

ELECTROMETRY
Carhonic anhydrase in the house cricket, Acheta domesticns. 12333

ELECTRON CAPTORE
Programmed temperature gas chromatography of pesticides, using electron capture and thermionic detectors. 12849

ELECTRON MICRCSCOPY
Virus-like particles in insect cells of three types. 12334

Histological and electron-microscopic studies on experiental liver cirrhosis in ducklings produced by aflatoxin. 12645

ELECTRONS
Rate constants of hydrated electron reactions with peptides and proteins. 12851

ELECTROPHYSIOLOGY
Electrophysiological stndies of olfactory receptor cells in the antennae of female mosquitoes (Aedes aegypti L.). 12355

EMPIDIDAE
Some distinctions between the larvae and pupae of the Empididae and Dolichopodidae (Diptera). 12331

EMPOASCA FABAE
Cold-hardiness of Empoasca fabae and some related species. 12329

EMPOASCA KRAEMERI
Cold-hardiness of Empoasca fabae and some related species. 12329

EMULSIFYING AGENTS
Note on the colorimetric method for malathion in formulations containing emulsifiers. 12874

ENATION MOSAIC (PEAS)
Inoculation of pea enation mosaic virns by the green peach, potato, and foxglove aphids. 12448

ENCEPHALITIS
Encephalitis surveillance in Harris Connty, Texas. 12388

Studies of the pathogenic properties of a porcine adenovirus. 12702

Animal sentinels in a statewide arthropod-borne encephalitis surveillance program. 12749

ENDOCRINE GLANDS
Reproduction in the fleshfly, Sarcophaga bullata, and its endocrine control. 12306

ENDRIN
The relationship of arthropod predators to crop damage inflicted by the sugarcane borer. 12511

An experimental spray program for integrated control of insects affecting sour cherry. 12513

Some insecticidal trials for the protection of til seeds in storage. 12785

ENTERITIS
Acute haemorrhagic enteritis associated with Welchia perfringens in Zebu cattle in Senegal. 12605

Trials of simultaneons treatment of gastro enteritic strongylosis and monieziasis of cattle with a mixture of thiahendazole and niclosamide. 12757

ENTEROVIRUSES
Isolation and characterization of bovine enteric virnses. 12726

ENVIRONMENT
Some environmental factors affecting feeding, oviposition, and snrvival of the southern corn rootworm. 12480

The influence of certain environmental factors on the respiration of some plant-parasitic nematodes. 12532

Studies on the transmission of the infections bursal agent (IBA) of chickens. 12568

ENZYMES
Carhonic anhydrase in the honse cricket, Acheta domesticns. 12333

EPERYTHROZOONOSIS
Existence of infectious feline anaemia (Eperythrozoonosis of cat) in Madagascar. 12725

EPIDEMIOLOGY
Some uredospore characteristics of importance in experimental epidemiology. 12418

Chronic mercnrial poisoning in swine. a case report of an outhreak with some epidemiological characteristics of hog cholera. 12637

EPIZOOTIC DISEASES
Pasteurellosis in wild birds in Massachusetts. 12611

Epizootiology of brucellosis in a flock of sheep. 12653

EPN
Procedure for nine organothiophosphate pesticide residues on fruits and vegetables, nsing microconlometric gas chromatography. 12810

EQOINE INFECTIODS ANEMIA
A preliminary evaluation of serologic tests for eqnine infectious anemia. 12601

The challenge of field diagnosis and control of eqnine infectious anemia. 12676

Introductory remarks on laboratory support in equine infectious anemia diagnosis. 12677

The development of petechial haemorrhages on the under-surface of the tongue of the horse and its relation to infection with the virus of equine infectious anaemia. 12713

EQUINE INFLUENZA
The use of polyvalent inactivated vaccine therapeutically against equine influenza. 12658

EQUINE INFLUENZA VIRUSES
Human responses to experimental infection with influenza A/Equi 2 virus. 12558

EQUIPMENT
Improved laboratory methods for rearing the citrus red mite. 12481

Sampling mites on douglas-fir foliage with the Henderson-McBurnie machine. 12913

ERADICATION
Victory over brucellosis nears in california. 12583

ERGOT
Outbreaks and new records. india. ergot on barley. 12466

ERGOTISM
Ergot poisoning of cattle grazing Dallisgrass. 12621

ERIZOMYCIN
Antibiotic erizomycin and process for making same. patent 3,367,833. 12882

ERYSIPELAS BACTERINS
A stable antigen for the tube agglutination test in chronic swine erysipelas. 12727

ERYTHROCYTE SEDIMENTATION REACTION
Evaluation of general course of erythrocyte sedimentation curve in horses. i. 12607

ERYTHROCYTES
In vitro agglutination of bovine erythrocytes infected with Babesia argentina. 12594

Detection of erythrocyte bound globulin in Plasmodium gallinaceum infected chickens. 12617

e-59 and CB-51 studies of the effect of partial-body X-irradiation on Erythropoiesis in beagles. 12685

The action of Mycoplasma gallisepticum upon chicken, rabbit, and cow erythrocytes. 12736

ESCHERICHIA COLI
Anti-microbial therapeutics consisting of nitrofurantoin, tetracycline, and D-glucosamine. patent 3,328,258. 12864

ESOPHAGUS
Epiphrenic diverticula of the esophagus in a dog. 12643

ETHERS
Ethers useful as molluscacides and piscicides. patent 3,349,102. 12850

ETHION
Procedure for nine organothiophosphate pesticide residues on fruits and vegetables, using microcoulometric gas chromatography. 12810

ETHYL ACETATE
A study on the egg laying behavior of Aedes aegypti in central Texas. (abstract). 12395

ETHYLENE DIBROMIDE
Reduction of root knot of tomatoes with crop residue amendments in field experiments. 12537

Swine toxicosis associated with fumigated grain. 12571

ETHYLENE DICHLORIDE
Swine toxicosis associated with fumigated grain. 12571

ETHYLENE GLYCOL
Ethylene glycol poisoning in dogs and cats. 12819

EUCHLAENA
Effect of host plants on the survival, development and behaviour of Chilo zonellus (Swinhoe) under laboratory conditions. 12496

EXOCORTIS (CITRUS)
Transmission of exocortis virus of citrus to herbaceous plants. 12471

EXPLOSIVES
Polynitro halo compounds useful as antibiotics, fungicides and explosives. patent 3,359,334. 12871

EXTENSION WORK
1967 insecticide recommendations; apple insect control (commercial). 12489

1967 insecticide recommendations; forage crops insects. 12518

1967 insecticide recommendations; insects of cabbage, broccoli, cauliflower, and brussels sprouts. 12519

1967 insecticide recommendations; insects of growing Christmas trees. 12520

1967 insecticide recommendations; pests of greenhouse tomatoes. 12521

1967 insecticide recommendations; insects of tomatoes. 12522

1967 insecticide recommendations; insects of Irish potatoes. 12523

1967 insecticide recommendations; control insects in and around poultry houses. 12752

EXTRACELLULAR SUBSTANCES
Extracellular potentials in the locust eye and optic lobe. 12325

Synthesis of indoleacetic acid by cell-free systems from Pseudomonas solanacearum and Nicotiana tabacum. 12451

EXUDATIVE EPIDERMITIS
Exudative epidermitis in pigs: Bacteriological studies on the causative agent. 12647

EYES
Extracellular potentials in the locust eye and optic lobe. 12325

EYEWORMS
Untersuchungen uber das Vorkommen von Augenwurmern, Thelazien, beim Rind im Einzugshereich des Schlachthofes Hanover. (Investigations on the occurrences of eyeworms (Thelazia spp) in cattle in the catchment area of Hanover slaughterhouse). 12754

FABRAEA MACULATA
Fungicidal control of Fabraea leafspot of pear. 12422

FARMS
Government Pest Infestation Laboratory (stored products and household pests). annual report, 1966. 12782

FAT BODY
The release of triglycerides and free fatty acids from the fat body of the cockroach, Periplaneta americana. 12324

The formation of lipid-bound carnitine derivatives in the fat body of Phormia regina. 12363

FATS
Detection of chick edema factor in fats and fatty acids by electron capture gas chromatography. 12626

FATTY ACIDS
Composition and possible significance of fatty acids in the lipid classes in honey bee semen. (chemistry of the drone honey bee reproductive system. 4.). 12314

The release of triglycerides and free fatty acids from the fat body of the cockroach, Periplaneta americana. 12324

Effect of diet or diethylstilbestrol on fatty acid composition of bovine tissues. 12584

Detection of chick edema factor in fats and fatty acids by electron capture gas chromatography. 12626

FEED ADDITIVES

Method of tobacco sucker control. patent 3,340,040. 12836

FEED ADDITIVES
Effect of diet or diethylstilbestrol on fatty acid composition of bovine tissues. 12584

Note on a simplified ion exchange method for sulfamethazine in feeds. 12596

Zinc deficiency in reproducing gilts fed a diet high in calcium and its effect on tissue zinc and blood serum alkaline phosphatase. 12628

Precipitation of bacitracin upon an inert, insoluble, inorganic support for use in animal feeds. patent 3,345,178. 12671

Food additives permitted in the feed and drinking water of animals or for the treatment of food-producing animals. Nexite. 12724

Inhibitive effect of Bacillus thuringiensis on the development of the face fly in cow manure. 12740

FEED SUPPLEMENTS
The effects of vitamin D in chicks. 12573

Carbanilide compositions and methods of using same. patent 3,340,145. 12659

FEED TOXICITY
Swine toxicosis associated with fumigated grain. 12571

FEEDING
Juglone (5-hydroxy-1,4-naphthoquinone) from Carya ovata, a deterrent to feeding by Scolytus multistriatus. 12338

Leaf disk method of testing alfalfa plants for resistance to feeding by adult alfalfa weevils. 12479

Studies on antifeeding properties of triphenyltin acetate against the tobacco caterpillar, Prodenia litura F. 12494

FELINE INFECTIOUS ENTERITIS
Experimental feline infectious enteritis in the germfree cat. 12695

FENTHION
Toxicity of DDT, dieldrin, malathion and fenthion to Rhodnius prolixus in the laboratory. 12817

FERTILITY
The effect of loco plant on libido and fertility in rams. 12706

FERTILIZERS
Sclerotium rolfsii and its control on tomato and peanut. 12473

FESTUCA
Fungicidal control of red thread disease of turfgrass in western Washington. 12430

FIGS
Fig mosaic. 12417

FILARIASIS
Diethylcarbamazine in filariasis control. 12640

FISH
An evaluation of the bottom fauna and its role as fish food in Fern Lake, Washington. 12299

Potential for naturalistic control of mosquitoes. 12389

FLAT APPLE (APPLES)
A transmissible red-ring disease on the fruit of delicious apples. 12424

FLAX
Tolerance of flax to dicamba applied to the foliage and to the soil. 12549

FLOTATION
Note on a laboratory sampling procedure for determining aphids in hops. 12777

Detection of leaf miners in canned spinach and turnip greens. 12778

Determination of aphids in hops. 12791

FLOUR
Studies on the effect of airtightness on the development of Tribolium castaneum Herbst (Coleoptera: Tenebrionidae) in wheat and wheat flour. 12787

FLUE-CURED TOBACCO
Biology of the cabbage looper on tobacco in North Carolina. 12484

FLUORESCEIN
Fluorescein-labeled goat milk antibodies: Use in detection of mumps virus in tissue culture. 12699

FLUORESCENT ANTIBODY TECHNIC
Studies on bluetongue. VI. animal transmission studies. 12622

Studies on bluetongue. V. detection of the virus in infected materials by immunofluorescence. 12698

Immunofluorescence in the diagnosis of bovine fetal leptospirosis. 12712

Study of sheeppox virus synthesis by fluorescent antibody technique. 12730

Equine piroplasmosis: Indirect fluorescent antibody test for Babesia caballi. 12770

FLUORESCENT DYES
Apple maggot adult dispersion in a New Brunswick apple orchard. 12506

Fluorescent dyes for marking and recovering fowl ticks in poultry houses treated with insecticides. 12746

FLUORIDES
Vertebral biopsies in the diagnosis of bovine fluoride toxicosis. 12556

FLUOROCHLOROCYCLOHEXYLCYCLOHEXENEONES
Fungicidally active fluorochlorocyclohexylcyclohexeneones and process for controlling fungus infestations therewith. patent 3,338,781. 12870

FOLIAR APPLICATION
Comparisons of soil and foliar applications of acaricides for control of the two-spotted spider mite on strawberries in southern California. 12525

FOMES PINI
Rate of decay in Pinus strobus following artificial inoculation with Fomes pini. 12462

FOOD
Determination of nicotine residues on foods. 12808

FOOD CONSUMPTION
Transmission of Toxoplasmosis through food consumption. 12692

FOOD CONTAMINATION
Note on a laboratory sampling procedure for determining aphids in hops. 12777

Detection of leaf miners in canned spinach and turnip greens. 12778

Extraneous materials in mushrooms. 12779

Determination of aphids in hops. 12791

Salmonella. 12792

Dilution method for mold count of catsup. 12793

A method for studying microbial penetration through the outer structures of the avian egg. 12794

Residues in foods. (Chlorinated pesticides). 12798

Thin-layer chromatoggraphic determination of carbaryl (Sevin) in some foods. 12799

Determination of 3-amino-1,2,4-triazole in crops. 12800

Spectrophometric determination of dithiocarbamate residues

on food crops. 12804

FOOT-AND-MOUTH DISEASE
Contagious bovine pleuropneumonia and the problems associated with its control. 12652

Susceptibility of tissue culture cells to foot-and-mouth disease virus; concentration of bovine serum in culture medium. 12684

FOOT-AND-MOUTH DISEASE VIRUS
Effect of incubation temperature and serum content in agar overlay on plaque production by foot-and-mouth disease virus. 12579

FORAGE PLANTS
1967 insecticide recommendations; forage crops insects. 12518

FOREIGN BODIES
Kontrollierte Behandlungsversuche bei fremdkorperkranken Rindern mit dem Kafig-Magneten; Modell Rinderklinik Hanover (Controlled-treatment experiments with permanent magnets of foreign body diseased cattle (Hanover Cattle clinic model). 12585

FOREIGN TRADE
The '67 pesticide review. 12927

FOREST INSECTS
Effect of minus 29 degrees F on overwintering populations of the balsam woolly aphid in North Carolina. 12308

Methods of sexing live adult western pine beetles. 12310

Dragonflies as beneficial insects of forest communities. 12313

Juglone (5-hydroxy-1,4-naphthoquinone) from Carya ovata, a deterrent to feeding by Scolytus multistriatus. 12338

Flight and dispersal of the white-pine weevil. 12345

Heat tolerance of last-instar larvae of the larch sawfly, Pristiphora ericksonii (Hymenoptera: Tenthredinidae). 12348

Determination of premature larval drop and other causes of larch sawfly mortality. 12352

Douglas-fir tussock moth (Hemerocampa pseudotsugata) egg-mass distribution on white fir in northeastern California. 12359

A report on the distribution and biology of tree hole mosquitoes in the western United States. 12402

Hydrocyanic acid and other fumigants for control of larvae of Plemeliella abietina and Megastigmus sp. in imported spruce seed. 12517

1967 insecticide recommendations; insects of growing Christmas trees. 12520

Outbreaks and new records: United States. oriental wood borer, a new record. 12789

FORMULATIONS
Note on the colorimetric method for malathion in formulations containing emulsifiers. 12874

Solvent system for formulating carbamates. patent 3,342,673. 12890

Improved infrared method for carbaryl (sevin) in commercial formulations. 12898

Gas chromatographic analysis of heptachlor content of formulations. 12904

FRAGARIA VESCA
A sensitive strawberry virus indicator clone of Fragaria vesca from the USSR. 12444

FROZEN FOOD
Determination of 3-amino-1,2,4-triazole in crops. 12800

FRUCTOSE
The utilization of sugars by insect cells in culture. 12321

FRUIT
Residues in foods. (Chlorinated pesticides). 12798

Thin-layer chromatoggraphic determination of carbaryl (Sevin) in some foods. 12799

Spectrophometric determination of dithiocarbamate residues on food crops. 12804

Procedure for nine organothiophosphate pesticide residues on fruits and vegetables, using microcoulometric gas chromatography. 12810

FUMIGANTS
Recent advances in the control of soil fungi. 12474

Hydrocyanic acid and other fumigants for control of larvae of Plemeliella abietina and Megastigmus sp. in imported spruce seed. 12517

Pesticides and the soil fauna; effects of Aldrin and DDT in an arable field. 12803

Report on fungicides, fumigants, and miscellaneous. 12812

FUMIGATION
Swine toxicosis associated with fumigated grain. 12571

Respiration of confused flour beetle adults in C02 or N2 and after subletbal fumigation. 12781

FUNGI
Attractiveness to Nitidulidae (Coleoptera) of natural attrahents of trees and fungus origin supplemented with vinegar and water in an Appalachian hardwood forest. 12366

A technique for labeling Ceratocystis ulmi with radio-carbon. 12456

FUNGICIDE RESIDUES
Chronic mercurial poisoning in swine. a case report of an outbreak with some epidemiological characteristics of hog cholera. 12637

FUNGICIDES
Fungicidal control of Fabraea leafspot of pear. 12422

Antifungal phenolic acids in apple fruits after infection with Sclerotinia fructigena. 12426

Method of controlling soil fungi with bis(chloromethyl)disulfide. patent 3,360,430. 12429

Fungicidal control of red thread disease of turfgrass in western Washington. 12430

Methyl arsine oxide method of controlling soil-borne pythium fungi. patent 3,338,780. 12461

Process for controlling spring dead spot on grass. patent 3,323,985. 12464

Method for control of powdery mildew. patent 3,323,986. 12468

Method of disinfecting seeds. patent 3,366,538. 12472

Recent advances in the control of soil fungi. 12474

A storage decay of Crownvetch (Coronilla varia l "crowns" caused by Fusarium roseum and its control by fungicide dip treatments. 12776

Determination of biphenyl in citrus fruits by thin layer chromatography and ultraviolet spectrophotometry. 12802

Spectrophometric determination of dithiocarbamate residues on food crops. 12804

Report on fungicides, fumigants, and miscellaneous. 12812

Halogenated aromatic pesticidal compositions for controlling fungi, bacteria and nematodes. patent 3,331,735. 12845

Fungicidally active fluorochlorocyclohexylcyclohexeneones and process for controlling fungus infestations therewith. patent 3,338,781. 12870

Polynitro halo compounds useful as antibiotics, fungicides and explosives. patent 3,359,334. 12871

FUNGUS DISEASES (INSECTS)

Method and compositions for the control of plant pathogens with mercurial sulfolanes. patent 3,361,625. 12873

Method of controlling fungi with n-thio-monofluoro-dichloro-methyl imides. patent 3,341,403. 12894

Fungicidal compositions containing manganese ethylene bis-dithiocarbamates and an aminoacetic acid derivative and method of using same. patent 3,362,873. 12895

Agricultural chemicals. book iV. fungicides. 395 t38. 12909

FUNGUS DISEASES (INSECTS)
Experiments on the biological control of mosquitoes with the fungus Beauveria bassiana (Bals.) Vuill. (abstract). 12391

FUNGUS DISEASES (PLANTS)
Storage of boll rot organisms on infected cotton bolls for prolonged periods. 12414

Effect of plant size on resistance to snowmold of winter wheat. 12419

Fungicidal control of Fabraea leafspot of pear. 12422

Distribution and prevalence of virulence for Victoria oats in Ustilago avenae. 12435

Race population dynamics in Ustilago avenae as related to the persistence of loose smut in oats. 12436

Key for determination of the most common, species of the genus Alternaria (Nees) Wiltsh. Emend. Joly. 12437

The physiology of penetration and infection by urediospores of rust fungi. 12439

Sources of resistance in the genus Gossypium to several soilborne pathogens. 12442

An unusual occurrence of eye rot of apple in California due to Nectria galligena. 12443

Interaction of race I and race II of Colletotrichum orbiculare on watermelon. 12445

Effect of cutting height on development of root rot in clover. 12447

Methyl arsine oxide method of controlling soil-borne pythium fungi. patent 3,338,780. 12461

Outbreaks and new records. india. ergot on barley. 12466

Rust on Zoysia in Arkansas. 12467

A storage decay of Crownvetch (Coronilla varia) "crowns" caused by Fusarium roseum and its control by fungicide dip treatments. 12776

FUSARIUM MONILIFORME
Fusarium scab of sorghum in Nigeria. 12427

FUSARIUM NIVALE
Effect of plant size on resistance to snowmold of winter wheat. 12419

FUSARIUM OXYSPORUM
Effect of cutting height on development of root rot in clover. 12447

FUSARIUM ROSEUM
A storage decay of Crownvetch (Coronilla varia) "crowns" caused by Fusarium roseum and its control by fungicide dip treatments. 12776

FUSARIUM SOLANI
Effect of cutting height on development of root rot in clover. 12447

GALLERIA MELLONELLA
The suitability of a nematode (Ed-136) for the control of some pasture insects. 12372

GALLSTONES
Cholelithiasis in a dog. 12674

GAMBUSIA
Potential for naturalistic control of mosquitoes. 12389

GAMMA RAYS
Control of fruit flies Dacus zonatus Saunders by gamma-rays. 12350

Gamma irradiation of European corn borer larvae. 12370

Effect of aeration on gamma irradiation of house fly pupae. 12375

Sterile-male releases control populations of Drosophila melanogaster in cage tests. 12381

Inherited semi-sterility in Aedes aegypti. (abstract). 12386

Gamma irradiation of pupae of the tobacco hndworm. 12485

GASES
Identification of air pollution damage to agricultural crops. 12795

GASTROINTESTINAL SYSTEM
A survey of the alimentary tract of cattle for Clostridium perfringens. 12729

GEOCORIS PUNCTIPES
Toxicity of five insecticides to several insect predators. 12358

GERM-FREE LIFE
Further studies on porcine enteroviruses isolated at Cambridge. i. infections in SPF pigs and the preparation of monospecific antisera. ii. serological grouping. 12557

Experimental feline infections enteritis in the germfree cat. 12695

Studies of the pathogenic properties of a porcine adeno-virus. 12702

GERMANE COMPOUNDS
Effects of organometallic compounds on Lepidoptera. 12528

GIBBERELLIC ACID
Translocation of tritium-labelled gibberellic acid in pea stem segments and potato tuber cylinders. 12826

GLOSSINA MORSITANS
Digestion in the tsetse fly Glossina morsitans Westw. the effect of feeding field-caught flies on guinea pigs in the laboratory. 12356

GLUCOSAMINE, D-
Anti-microbial therapeutics consisting of nitrofurantoin, tetracycline, and D-glucosamine. patent 3,328,258. 12864

GLYCERIDES
The release of triglycerides and free fatty acids from the fat body of the cockroach, Periplaneta americana. 12324

GLYCOLIPOPROTEIN
Brucellosis antigens. patent 3,342,684. 12650

GOATS
Fluorescein-labeled goat milk antibodies: Use in detection of mumps virus in tissue culture. 12699

GOSSYPOL
Survival and development of European corn borers fed gossypol in artificial diets. 12344

GRAIN
Some uredospore characteristics of importance in experimental epidemiology. 12418

Swine toxicosis associated with fumigated grain. 12571

Government Pest Infestation Laboratory (stored products and household pests). annual report, 1966. 12782

A trap for the detection and recovery of insects in stored grain. 12784

Determination of 3-amino-1,2,4-triazole in crops. 12800

GRANULOSES
Preliminary observations on the in vitro photoreactivation of an insect virus inactivated with ultraviolet radiation0. 12328

GRASS SICKNESS
Process for controlling spring dead spot on grass. patent 3,323,985. 12464

GRASSES
Process for controlling spring dead spot on grass. patent 3,323,985. 12464

GREENHOUSE CULTURE
1967 insecticide recommendations; pests of greenhouse tomatoes. 12521

GREENHOUSES
Pseudoplusia includens: a pest of floricultural crops in southern California. 12507

GROUND-EFFECT MACHINES
A low cost airboat for use in mosquito control. 12923

GROUNDWATER
Field developmental studies on Culex pipiens quinquefasciatus reared in natural, dairy barn wash and sewage effluent waters. (abstract). 12408

GROWTH FACTORS
Effect of plant size on resistance to snowmold of winter wheat. 12419

GRUBS
Diagnosis and treatment of adverse reactions in cattle treated for grubs with a systemic insecticide. 12822

GUAVAS
Control of fruit flies Dacus zonatus Saunders by gamma-rays. 12350

GUINEA PIGS
Studies on bluetongue. iII. comparison of two complement-fixation methods. 12574

Naturally occuring histoplasmosis in guinea pigs. 12588

GUMBORO DISEASE
Studies on the transmission of the infectious bursal agent (IBA) of chickens. 12568

HABITATS
Bionomics and zoogeography of tiger beetles of saline habitats in the central United States (Coleoptera: Cicindelidae). 12307

HAEMATOBIA IRRITANS
Horn fly and face fly control on range cattle with aerial applications of ultra-low-volume malathion sprays. 12741

HAEMATOPINUS EURYSTERNUS
Controlling lice and chorioptic mange mites on dairy cattle. 12744

HAEMOPROTEUS COLUMBAE
Research note: Incidence of endoparasitism in a group of pigeons in the Chicago area. 12634

HALO BLIGHT (BEANS)
Incidence of halo blight in Idaho. 12420

HALOBENZYLCARBAMATES
Destroying undesired vegetation with halobenzylcarbamates. patent 3,328,154. 12857

HALOGENATED HYDROCARBONS
Alkyd resins with herbicidal properties. patent 3,343,941. 12844

HANDBOOKS
Agricultural pesticide chemicals handbook. sB951.a5. 12814

Agricultural chemicals. book iV. fungicides. 395 t38. 12909

HAY
Reduction of root knot of tomatoes with crop residue amendments in field experiments. 12537

HEAT
Heat tolerance of last-instar larvae of the larch sawfly, Pristiphora erichsonii (Hymenoptera: Tenthredinidae). 12348

HELICOPTERS
The helicopter as a new tool in mosquito control program of the Merced County abatement district. (abstract). 12919

HELIOTHIS VIRESCENS
Gamma irradiation of pupae of the tobacco budworm. 12485

Effects of organometallic compounds on Lepidoptera. 12528

HELIOTHIS ZEA
Activity of tobacco hornworm and corn earworm moths as determined by traps equipped with blacklight lamps. 12377

Low-volume aerial spraying of several insecticides for cotton-insect control. 12476

Insect preference for peanut varieties. 12500

Low-volume dusts for control of the cotton bollworm. 12502

Successive germination of bollworms on cotton in field cages. 12526

Seasonal trends in catches of moths of the tobacco hornworm, tomato hornworm, and corn earworm in traps equipped with blacklight lamps in North Carolina. 12527

Effects of organometallic compounds on Lepidoptera. 12528

Control of the cabbage looper and corn earworm with nuclear polyhedrosis viruses. 12530

HELMINTHIASIS
Anthelmintic compositions and methods of using same. patent 3,340,144. 12771

Control of endoparasites of animals. patent 3,344,021. 12772

3-Iodo-4-hydroxy-5-nitrobenzonitrile as an anthelmintic. patent 3,331,738. 12773

HELMINTHS
Methods for controlling helminths in animals using certain organophosphorus compounds. patent 3,345,260. 12767

HEMATOLOGY
Hematologic changes and clinical signs of trichinosis in pigs. 12716

HEMATOPOIETIC SYSTEM
The effect of dose rate on the acute radiation Syndrome in the beagle, with special consideration for the hematopoietic system. 12735

HEMEROCAMPA PSEUDOTSUGATA
Douglas-fir tussock moth (Hemerocampa pseudotsugata) egg-mass distribution on white fir in northeastern California. 12359

HEMOBARTONELLOSIS
Feline infectious anemia recognized in Finland. 12719

HEMORRHAGE
The development of petechial haemorrhages on the under-surface of the tongue of the horse and its relation to infection with the virus of equine infectious anaemia. 12713

HEMPA
Metabolism of hempa uniformly labeled with C14 in male house flies. 12320

Purification and analysis of hempa by chromatographic techniques. 12908

HEPTACHLOR
Toxicity of insecticides to house crickets and bioassay of treated soils in the laboratory. 1231B

The relationship of arthropod predators to crop damage inflicted by the sugarcane borer. 12511

Bioassay of field treated soils to determine bioactivity and movement of insecticides. 12854

Gas chromatographic analysis of heptachlor content of formulations. 12904

HEPTACHLOR EPOXIDE

HEPTACHLOR EPOXIDE
Ultrasonic extraction of insecticides. 1. comparison of extraction methods and solvent systems over three time intervals. 12796

HERBICIDE RESIDUES
Tolerance of flax to dicamba applied to the foliage and to the soil. 12549

Determination of 3-amino-1,2,4-triazole in crops. 12800

HERBICIDES
Darkness and the activity of diquat and paraquat on tomato, broad bean and sugar beet. 12544

Method of selectively destroying weeds. patent 3,332,768. 12545

The effect of two herbicides, bromoxynil and dicamba, on the transpiration of tartary buckwheat and barley. 12546

Influence of temperature on phytotoxicity of triazine herbicides to pine seedlings. 12548

Pyridazones and method for controlling vegetation. patent 3,326,660. 12551

Method for killing potato vines with ammonia. patent 3,331,675. 12552

Herbicide-insecticide formulations for control of the American dog tick. 12745

Herbicidal and insecticidal composition. patent 3,348,940. 12841

Alkyd resins with herbicidal properties. patent 3,343,941. 12844

Acetyl substituted phenoxyacetamides and their use as herbicides. patent 3,371,106. 12846

Herbicidal compositions and process. patent 3,342,585. 12852

Herbicidal benzimidazole. 12853

Agricultural mulch and herbicidal composition and method. patent 3,341,318. 12855

Destroying undesired vegetation with halobenzylcarbamates. patent 3,328,154. 12857

Controlling vegetation with azabicyclononanecarbothiolates. patent 3,343,942. 12858

Pesticidal compounds and their use. patent 3,371,107. 12859

Herbicidal clay formulation. patent 3,362,810. 12860

Pyridazone derivatives and their use as plant growth regulants. patent 3,336,130. 12863

Herbicidal substituted phenoxy acylamides. patent 3,326,942. 12867

3-arylaminopolyhalocycloalk-2-en-1-ones as herbicides. patent 3,360,359. 12868

Herbicidal composition and method. patent 3,330,643. 12876

Method for controlling plant growth. patent 3,326,658. 12877

Viscous aqueous preparations. patent 3,341,319. 12883

Herbicidal composition and method employing 4,4'-bipyridylium quaternary salts. patent 3,340,041. 12885

Method of controlling plant growth. patent 3,328,156. 12886

Herbicidal methods and compositions employing 3,4-dichloro-phenyl dimethyl and methylethyl ureas. patent 3,343,943. 12888

Herbicidal composition and method. patent 3,326,661. 12893

Herbicidal 2-methylthio-s-triazines. patent 3,326,914. 12896

Method of destroying undesired plant growth. patent 3,351,456. 12897

Non-selective herbicidal method. patent 3,360,358. 12899

HEREDITY
WARP anti-resistant: DDT selection and house fly cross-resistance. 12384

Inherited semi-sterility in Aedes aegypti. (abstract). 12386

Heredity of retinal dysplasia in Bedlington Terriers. 12697

HETERAKIS GALLINARUM
Response of four breeds of chickens and one breed of turkeys to experimental heterakis and histomonas infections. 12769

HETERODERA GLYCINES
Soybean cyst nematode found in Louisiana. 12533

Suitability of Kobe lespedeza for reproduction of isolates of the soybean cyst nematode from nine locations. 12534

HETERODERA ROSTOCHIENSIS
The population genetics of the potato cyst-nematode, Heteroda rostochiensis: Mathematical models to simulate the effects of growing eelworm-resistant potatoes bred from Solanum tuberosum ssp andigena. 12538

HIBERNATION
Effect of minus 29 degrees F on overwintering populations of the balsam woolly aphid in North Carolina. 12308

Cold-hardiness of Empoasca fabae and some related species. 12329

Estivation studies of the convergent lady beetle in Arkansas. 12376

HIPPODAMIA CONVERGENS
Toxicity of five insecticides to several insect predators. 12358

Estivation studies of the convergent lady beetle in Arkansas. 12376

HISTOLOGY
Histological and electron-microscopic studies on experiental liver cirrhosis in ducklings produced by aflatoxin. 12645

Larval distribution and histopathology of experimental Strongyloides ransomi infection in young swine. 12775

HISTOPLASMOSIS
Naturally occuring histoplasmosis in guinea pigs. 12588

HOG CHOLERA
Chronic mercurial poisoning in swine. a case report of an outbreak with some epidemiological characteristics of hog cholera. 12637

Experiments of immunization against the classic swine pest with the application of the principle of interferential vaccines. 12687

HOG CHOLERA VIRUS
Effects of attenuated hog cholera virus in pregnant swine at various stages of gestation. 12591

HOMALODISCA COAGULATA
Distribution of phony peach vectors in South Carolina. 12495

HOMALODISCA INSOLITA
Distribution of phony peach vectors in South Carolina. 12495

HOPS
Note on a laboratory sampling procedure for determining aphids in hops. 12777

Determination of aphids in hops. 12791

HORMONES
Termination of diapause in the cereal leaf beetle by hormones. 12323

The release of triglycerides and free fatty acids from the fat body of the cockroach, Periplaneta americana. 12324

Calcification, tanning, and the role of ecdyson in the formation of the puparium of the facefly, Musca antumnalis.

12337

Effects of repeated haemolymph withdrawals and of ligaturing the head on differential haemocyte counts of Rhodnius prolixus Stal. 12353

HORSES
Human responses to experimental infection with influenza A/Equi 2 virus. 12558

A preliminary evaluation of serologic tests for equine infectious anemia. 12601

Evaluation of general course of erythrocyte sedimentation curve in horses. i. 12607

Immunization of horses against African horse-sickness with attenuated neurotropic viral strains propagated in chicken embryos. 12620

Immunologic response of the equine to Salmonella typhimurium bacterin. 12625

The equine respiratory disease syndrome in the Pacific Northwest. 12644

The use of polyvalent inactivated vaccine therapeutically against equine influenza. 12658

Clinical examination and diagnosis of the diseased equine foot. 12667

The challenge of field diagnosis and control of equine infectious anemia. 12676

Introductory remarks on laboratory support in equine infectious anemia diagnosis. 12677

Astragalus mollissimus (Locoweed) toxicosis of horses in western Kansas. 12678

The development of petechial haemorrhages on the under-surface of the tongue of the horse and its relation to infection with the virus of equine infectious anaemia. 12713

Animal sentinels in a statewide arthropod-borne encephalitis surveillance program. 12749

Equine piroplasmosis: Intraerythrocytic development of Babesia caballi (Nuttall) and Babesia equi (Laveran). 12765

Equine piroplasmosis: Indirect fluorescent antibody test for Babesia caballi. 12770

HOST INDEXING (PLANTS)
Rusts on Indian forest trees. 12415

Viruses mechanically transmitted from pear. 12449

Host range, characteristics, and purification of plum line pattern virus. 12450

Tomato spotted wilt virus in lettuce crop in Argentina. 12452

HOST SPECIFICITY
Five new phytoseid mites from U.a.r., with collection notes on three other species (Acarina: Phytoseiidae). 12298

Juglone (5-hydroxy-1,4-naphthoquinone) from Carya ovata, a deterrent to feeding by Scolytus multistriatus. 12338

Effect of host plants on the survival, development and behaviour of Chilo zonellus (Swinhoe) under laboratory conditions. 12496

Insect preference for peanut varieties. 12500

Reaction of corn to the feeding of the wheat curl mite. 12510

Suitability of Kobe lespedeza for reproduction of isolates of the soybean cyst nematode from nine locations. 12534

HOT WATER TREATMENT (PLANTS)
Eradication of the seedborne inoculum of Xanthomonas oryzae by hot water treatment of paddy seeds. 12463

HOUSEHOLD INSECTS
Toxicity of insecticides to house crickets and bioassay of treated soils in the laboratory. 12318

A further pest species of silverfish (Thysanura) from Australia, with a key to the domestic species. 12790

HOUSEHOLD PESTS
Government Pest Infestation Laboratory (stored products and household pests). annual report, 1966. 12782

HUMANS
Human responses to experimental infection with influenza A/Equi 2 virus. 12558

Pulmonary bovine tuberculosis in an owner and in his dairy herd. 12563

Swine toxicosis associated with fumigated grain. 12571

Bovine papular stomatitis with apparent transmission to man. 12581

HUMIDITY
The humidity responses of Trogoderma granarium Everts (Coleoptera, Dermestidae). 12383

Effect of temperature and relative humidity on hatching of eggs and on longevity of adults of Aedes vexans (Meigen). (abstract). 12390

Some uredospore characteristics of importance in experimental epidemiology. 12418

HYALOPHORA CECROPIA
Strain-gauge transducer studies on intratracheal pressure and pupal length during discontinuous respiration in diapausing silkworm pupae. 12317

Active transport of potassium and oxygen consumption in the isolated midgut of Hyalophora cecropia. 12347

HYDRATED ELECTRONS
Rate constants of hydrated electron reactions with peptides and proteins. 12851

HYDRAZOBENZENES
Method of desuckering tobacco plants with azo-, hydrazo-, and azoxy-benzenes. patent 3,361,553. 12838

HYDROBIOTITE
Food additives permitted in the feed and drinking water of animals or for the treatment of food-producing animals. Verxite. 12724

HYDROCARBONS
Mosquito control agents derived from petroleum hydrocarbons: laboratory effectiveness. (abstract). 12399

HYDROCORTISONE
Rates of hydrocortisone and corticosterone secretion in calves. 12731

HYDROCYANIC ACID
Hydrocyanic acid and other fumigants for control of larvae of Plemeliella abietina and Megastigmus sp. in imported spruce seed. 12517

HYDROLOGY
Mosquito control on Smith Mountain reservoir by pumped storage water level management. 12340

HYDROPHILIDAE
Activity and sequence of mosquito predators in woodland pools in Ontario. 12397

HYDROXY ESTERS
Chemicals tested as space repellents against yellow-fever mosquitoes. i. esters. 12341

HYDROXYBENZONITRILES
Method for controlling plant growth. patent 3,326,658. 12877

HYLEMYA ANTIQUA
Oviposition by onion maggot adults fed on a chemically defined diet. 12371

HYLEMYA BRASSICAE

HYLEMYA BRASSICAE
Spatial arrangement of the eggs of Hylemya brassicae (Bouche), and a sequential sampling plan for use in control of the species. 12487

HYLEMYA PLATURA
A simple method for mass rearing of the seed-corn maggot, Hylemya platura Meigen (Diptera, Anthomyiidae). 12361

HYLOBIUS RADICIS
The biology and ecology of the pine root collar weevil, Hylobius radicis Buchanan, in Wisconsin. 12365

HYLOTRUPES BAJULUS
Preventive measures for the protection of wood against Hylotrupes bajulus. 12354

HYPERA POSTICA
Biology and distribution of Tetrastichus incertus, a parasite of the alfalfa weevil. 12378

Leaf disk method of testing alfalfa plants for resistance to feeding by adult alfalfa weevils. 12479

Parasitism of the alfalfa weevil in the Western Plains States from 1963 to 1966. 12486

HYPHANTRIA CUNEA
Biological observations on Coleomegilla maculata and its role as a predator of the fall webworm. 12380

HYPOGLYCEMIA
Hypoglycemia neonatal calves associated with acute diarrhea. 12721

HYPOMAGNESEMIA
Hypomagnesaemic tetany in cattle. i. incidence, aetiology, diagnosis and treatment. 12577

Effect of dietary organic phosphorus on magnesium metabolism in sheep. 12608

Influence of dietary magnesium on metabolism of calcium and magnesium in sheep. 12627

HYPOVITAMINOSIS
Rates of formation and absorption of cerebrospinal fluid in bovine hypovitaminosis A. 12578

IMMUNIZATION
Inoculation of pea enation mosaic virus by the green peach, potato, and foxglove aphids. 12448

The immune response of chickens to Newcastle disease vaccine FP 113. 12565

Victory over brucellosis nears in california. 12583

Treatment of arteriosclerotic diseases. patent 3,337,406. 12597

Modified laryngotracheitis vaccine. patent 3,331,736. 12618

Immunization of horses against African horse-sickness with attenuated neurotropic viral strains propagated in chicken embryos. 12620

Immunity following aerosol exposure to high-embryo-passage avian infectious bronchitis virus. 12629

Avian leukosis treatment with inactivated rous sarcoma virus. patent 3,326,767. 12631

Investigations on immunogenetics of ethanol-inactivated vaccines against Aujeszky's disease. 12642

Brucellosis antigens. patent 3,342,684. 12650

Comparative studies on immunogenicity of Arizona (7:1,7,8) adjuvant bacterins in mice and turkeys. 12668

Experiments of immunization against the classic swine pest with the application of the principle of interferential vaccines. 12687

Dermatophilus infection. 12693

Studies on bluetongue. v. detection of the virus in infected materials by immunofluorescence. 12698

Swine abscesses caused by Lancefield's group P streptococci. iv. test of two bacterins for immunization. 12704

Active immunity against Trichostrongylus axei in sheep and rabbits. 12710

Antibody and cellular response in lambs immunized against Trichostrongylus axei. 12711

Immunofluorescence in the diagnosis of bovine fetal leptospirosis. 12712

Brucellosis. definition of official vaccinate. 12723

Immunity response from an inactivated infectious bronchitis vaccine. 12734

IMMUNOLOGY
Immunologic competence of thymectomized neonatal calves. 12580

INCLUSION-BODY RHINITIS VIRUS
Inclusion-body rhinitis of pigs: Attempts to grow the causal agent in tissue cultures. 12572

Cytomegalic inclusion disease in sand rats (Psammomys obesus). histopathologic. 12633

INDEXES
Index to genera of pathogens listed in the "index of Plant Diseases in the United States". 2. 12432

INDIA
Rusts on Indian forest trees. 12415

An outbreak of listeriosis in chickens. 12673

Natural occurrence of Schistosoma spindale in Bandicota bengalensis in Bombay together with a note on their possible role in the dissemination of schistosomiasis spindale in domestic ruminants. 12750

INDOLEACETIC ACID
Synthesis of indoleacetic acid by cell-free systems from Pseudomonas solanacearum and Nicotiana tabacum. 12451

Effect of beta-indolylacetic acid on the growth and the auxin catabolism of Lactobacillus bulgaricus. 12832

INFECTIOUS BRONCHITIS
Dietary sodium and potassium in infectious bronchitis of chickens. 12592

Immunity response from an inactivated infectious bronchitis vaccine. 12734

INFECTIOUS BRONCHITIS VIRUS
Infectious bronchitis virus interference with Newcastle disease virus in monolayers of chicken kidney cells. 12564

Immunity following aerosol exposure to high-embryo-passage avian infectious bronchitis virus. 12629

INFECTIOUS DISEASES
Listerioz sel'skokhozyaistvennykh zhivotnykh (listeriosis of livestock).sP849.15b3. 12562

Anti-microbial therapeutics consisting of nitrofurantoin, tetracycline, and D-glucosamine. patent 3,328,258. 12864

INFECTIOUS LARYNGOTRACHEITIS
Mycoplasma gallisepticum in a commercial laryngotracheitis vaccine. 12567

Replication of infectious laryngotracheitis virus in chicken kidney cell culture. 12662

INFLUENZA VIRUSES
Chromatographic purification of influenza virus with hydroxylapatite modified by autoclaving. 12648

INFRARED SPECTRA
Improved infrared method for carbaryl (sevin) in commercial formulations. 12898

INSECT ABNORMALITIES
Abnormalities of growth and metamorphosis in some pyrrhocorid bugs. the paper factor. 12319

Teratogenic effects of a tranquilizer, trifluoperazine dihydrochloride on the yellow-fever mosquito. 12369

INSECT BEHAVIOR
Factors influencing the response of Ips confusus (Coleoptera: Scolytidae) to male attractant. 12316

Silking behavior of the gypsy moth, Porthetria dispar. 12357

Sex pheromones of noctuid moths. XIV. feasibility of behavioral control by disrupting pheromone communication in cabbage loopers. 12374

Activity of tobacco hornworm and corn earworm moths as determined by traps equipped with blacklight lamps. 12377

The flight habits of Anopheles freeborni Aitken. 12387

A study on the egg laying behavior of Aedes aegypti in central Texas. (abstract). 12395

Comparative oviposition selection preference by Aedes dorsalis and Aedes nigromaculis to three inorganic salts in the laboratory. (abstract). 12405

Studies on antifeeding properties of triphenyltin acetate against the tobacco caterpillar, Prodenia litura F. 12494

Effect of host plants on the survival, development and behaviour of Chilo zonellus (Swinhoe) under laboratory conditions. 12496

INSECT BIOLOGY
Five new phytoseid mites from O.a.r., with collection notes on three other species (Acarina: Phytoseiidae). 12298

Methods of sexing live adult western pine beetles. 12310

Biological observations on Coleomegilla maculata and its role as a predator of the fall webworm. 12380

Effect of temperature and relative humidity on hatching of eggs and on longevity of adults of Aedes vexans (Meigen). (abstract). 12390

A report on the distribution and biology of tree hole mosquitoes in the western United States. 12402

Biology of the cabbage looper on tobacco in North Carolina. 12484

INSECT CAGES
A method of determining rate and time of egg deposition by insects. 12315

Sterile-male releases control populations of Drosophila melanogaster in cage tests. 12381

Successive germination of bollworms on cotton in field cages. 12526

A portable unit for ventilating insect cages. 12916

INSECT COLLECTING EQUIPMENT
Vehicle mounted aspirators. 12911

A light weight entomological survey kit. (abstract). 12915

A collapsible portable vehicle mounted insect trap. (abstract). 12918

INSECT CONTROL
Mosquito control on Smith Mountain reservoir by pumped storage water level management. 12340

Sterile-male releases control populations of Drosophila melanogaster in cage tests. 12381

Surveillance of Aedes aegypti in the U.S. air Force. 12392

Mosquito control is compatible with and beneficial to agriculture. 12394

Ecological factors influencing the efficacy of mosquito control in irrigated pastures in California. (abstract). 12396

Problems of interaction and density in mosquitoes in relation to Aedes aegypti eradication. 12398

Mosquito control agents derived from petroleum hydrocarbons: laboratory effectiveness. (abstract). 12399

World-wide mosquito control, a growing public health need. 12404

Mosquito control and the California Water Plan. 12406

Laboratory and field studies on mosquito control in waste disposal lagoons in Louisiana. (abstract). 12409

Beneficial effects of research to mosquito control operations. 12410

Method for control of arthropods. patent 3,356,568. 12747

Method for controlling insects and worms with organophosphorus cyclic sulfone compositions. patent 3,341,407. 12760

Pests of stored products. SB937 .M8. 12786

Insecticidal compositions containing carbamates of 5- and 6-membered hetero-sulfur compounds and method of controlling insects with same. patent 3,338,782. 12840

The helicopter as a new tool in mosquito control program of the Merced County abatement district. (abstract). 12919

A low cost airboat for use in mosquito control. 12923

INSECT DISSEMINATION
Study of the dispersion and flight range of Anopheles sergenti Theo in Siwa Oasis using radioactive isotopes as markers. 12295

Seasonal movements of swarms of Locusta migratoria migratorioides (R. and f.) in western Africa in 1928 to 1931. 12296

The horizontal and vertical distribution of flying insects near artificial windbreaks. 12301

Flight and dispersal of the white-pine weevil. 12345

Seasonal mosquito distribution and abundance in Central Luzon. (abstract). 12393

A report on the distribution and biology of tree hole mosquitoes in the western United States. 12402

Apple maggot adult dispersion in a New Brunswick apple orchard. 12506

INSECT ECOLOGY
An ecological study of Chaoborus. 12302

The dragonflies (Odonata: Anisoptera) of southern Florida. 12304

Bionomics and zoogeography of tiger beetles of saline habitats in the central United States (Coleoptera: Cicindelidae). 12307

Ecology and control of Leptoconops kerteszi biting gnats in southern California. (abstract). 12336

Ecological factors influencing the efficacy of mosquito control in irrigated pastures in California. (abstract). 12396

INSECT EGGS
A method of determining rate and time of egg deposition by insects. 12315

Termination of diapause in the cereal leaf beetle by hormones. 12323

Douglas-fir tussock moth (Hemerocampa pseudotsugata) egg-mass distribution on white fir in northeastern California. 12359

Biological observations on Coleomegilla maculata and its role as a predator of the fall webworm. 12380

Effect of temperature and relative humidity on hatching of eggs and on longevity of adults of Aedes vexans (Meigen). (abstract). 12390

A study on the egg laying behavior of Aedes aegypti in central Texas. (abstract). 12395

INSECT FLIGBT

Spatial arrangement of the eggs of Hylemya brassicae (Bonche), and a sequential sampling plan for use in control of the species. 12487

INSECT FLIGHT
Factors influencing the response of Ips confusus (Coleoptera: Scolytidae) to male attractant. 12316

Flight and dispersal of the white-pine weevil. 12345

The flight activity of some British Hemerobiidae and Chrysopidae, as indicated by suction-trap catches. 12367

Flight in Drosophila. iI. variations in stroke parameters and wing contour. 12379

The flight habits of Anopheles freeborni Aitken. 12387

Vehicle mounted aspirators. 12911

INSECT GENETICS
WARF anti-resistant: DDT selection and house fly cross-resistance. 12384

Genetic analysis of non-recessive factors of resistance to diazinon in the SKA strain of the housefly (Musca domestica L.). 12385

INSECT HISTOLOGY
Structure and function of the extraneural sheath in insects. 12297

INSECT METABOLISM
Metabolism of hemps uniformly labeled with C14 in male house flies. 12320

The utilization of sugars by insect cells in culture. 12321

The release of triglycerides and free fatty acids from the fat body of the cockroach, Periplaneta americana. 12324

The conversion of cholestanone to cholestanol by the housefly, Musca domestica L. 12330

Active transport of potassium and oxygen consumption in the isolated midgut of Hyalophora cecropia. 12347

The formation of lipid-bound carnitine derivatives in the fat body of Phormia regina. 12363

INSECT NORPHOLOGY
Biology and distribution of Tetrastichus incertus, a parasite of the alfalfa weevil. 12378

Field developmental studies on Culex pipiens quinquefasciatus reared in natural, dairy barn wash and sewage effluent waters. (abstract). 12408

INSECT MORTALITY
Effect of minus 29 degrees F on overwintering populations of the balsam woolly aphid in North Carolina. 12308

Cold-hardiness of Empoasca fabae and some related species. 12329

Survival and development of European corn borers fed gossypol in artificial diets. 12344

Gamma irradiation of European corn borer larvae. 12370

Oviposition by onion maggot adults fed on a chemically defined diet. 12371

Experiments on the biological control of mosquitoes with the fungus Beauveria bassiana (Bals.) Vuill. (abstract). 12391

Field developmental studies on Culex pipiens quinquefasciatus reared in natural, dairy barn wash and sewage effluent waters. (abstract). 1240B

Some environmental factors affecting feeding, oviposition, and survival of the southern corn rootworm. 12480

INSECT NUTRITION
The effects of different aphid foods on Adalia bipunctata L and Coccinella 7-punctata L. 12312

Continuous rearing of aphids of the Aphis fabae complex on sterile synthetic diet. 12327

The conversion of cholestanone to cholestanol by the housefly, Musca domestica L. 12330

Survival and development of European corn borers fed gossypol in artificial diets. 12344

Effects of repeated haemolymph withdrawals and of ligaturing the head on differential haemocyte counts of Rhodnius prolixus Stal. 12353

Oviposition by onion maggot adults fed on a chemically defined diet. 12371

Some environmental factors affecting feeding, oviposition, and survival of the southern corn rootworm. 12480

Aspects of pea aphid nutrition. 12516

INSECT PESTS
Strategy of integrated pest control. 12515

Government Pest Infestation Laboratory (stored products and household pests). annual report, 1966. 127B2

Pests of stored products. SB937 .M8. 127B6

Climate and potential range of distribution of stored-product mites in Japan. 127BB

INSECT PHYSIOLOGY
Structure and function of the extraneural sheath in insects. 12297

Termination of diapause in the cereal leaf beetle by hormones. 12323

Calcification, tanning, and the role of ecdyson in the formation of the puparium of the facefly, Musca antumnalis. 12337

The regeneration of motor axons in an insect. 12342

Effects of low-level ultra-violet irradiation on reproduction of Aedes aegypti (L.) (preliminary report) (abstract). 12407

Effect of host plants on the survival, development and behaviour of Chilo zonellus (Swinhoe) nnder laboratory conditions. 12496

Successive germination of bollworms on cotton in field cages. 12526

Inhibitive effect of Bacillus thuringiensis on the development of the face fly in cow manure. 12740

Studies on the effect of airtightness on the development of Tribolium castaneum Herbst (Coleoptera: Tenebrionidae) in wheat and wheat flour. 127B7

INSECT POPULATIONS
A theoretical evaluation of population growth after removing individuals from some age groups. 12300

Fluctuations in distribution and abundance of Aedes vexans (Meigen) in Salt Lake County. 12303

Population dynamics of the walnut aphid, Chromaphis juglandicola (Kalt) in northern California. 12305

Determination of premature larval drop and other causes of larch sawfly mortality. 12352

Seasonal trends in catches of moths of the tobacco hornworm, tomato hornworm, and corn earworm in traps equipped with blacklight lamps in North Carolina. 12527

Insect abundances on tomatoes and squash mulched with aluminum and plastic sheetings. 12529

INSECT REARING
Methods of sexing live adult western pine beetles. 12310

Continuous rearing of aphids of the Aphis fabae complex on sterile synthetic diet. 12327

Survival and development of European corn borers fed gossypol in artificial diets. 12344

Digestion in the tsetse fly Glossina morsitans Westw.

the effect of feeding field-caught flies on guinea pigs in the laboratory. 12356

A simple method for mass rearing of the seed-corn maggot, Hylemya platura Meigen (Diptera, Anthomyiidae). 12361

Gamma irradiation of European corn borer larvae. 12370

Oviposition by onion maggot adults fed on a chemically defined diet. 12371

Biological observations on Coleomegilla maculata and its role as a predator of the fall webworm. 12380

Field developmental studies on Culex pipiens quinquefasciatus reared in natural, dairy barn wash and sewage effluent waters. (abstract). 12408

Some environmental factors affecting feeding, oviposition, and survival of the southern corn rootworm. 12480

Improved laboratory methods for rearing the citrus red mite. 12481

INSECT REPELLENTS
Chemicals tested as space repellents against yellow-fever mosquitoes. i. esters. 12341

Studies on antifeeding properties of triphenyltin acetate against the tobacco caterpillar, Prodenia litura F. 12494

Neem seed as a protectant against bruchid Callosobruchus maculatus (Fabricius) infesting some leguminous seeds. 12783

Statistical applications to repellency assay. (abstract). 12820

INSECT RESPIRATION
Strain-gauge transducer studies on intratracheal pressure and pupal length during discontinuous respiration in diapausing silkworm pupae. 12317

Carbonic anhydrase in the house cricket, Acheta domesticus. 12333

Respiration of the confused flour beetle in five atmospheres of varying CO2:O2 ratios. 12780

Respiration of confused flour beetle adults in CO2 or N2 and after sublethal fumigation. 12781

INSECT TAXONOMY
Five new phytoseid mites from U.a.r., with collection notes on three other species (Acarina: Phytoseiidae). 12298

The dragonflies (Odonata: Anisoptera) of southern Florida. 12304

Some distinctions between the larvae and pupae of the Empididae and Dolichopodidae (Diptera). 12331

INSECT TEMPERATURE
Heat tolerance of last-instar larvae of the larch sawfly, Pristiphora erichsonii (Hymenoptera: Tenthredinidae). 12348

INSECT TRAPS
The horizontal and vertical distribution of flying insects near artificial windbreaks. 12301

Determination of premature larval drop and other causes of larch sawfly mortality. 12352

Activity of tobacco hornworm and corn earworm moths as determined by traps equipped with blacklight lamps. 12377

A study on the egg laying behavior of Aedes aegypti in central Texas. (abstract). 12395

Activity and sequence of mosquito predators in woodland pools in Ontario. 12397

Apple maggot adult dispersion in a New Brunswick apple orchard. 12506

A trap for the detection and recovery of insects in stored grain. 12784

A collapsible portable vehicle mounted insect trap. (abstract). 12918

INSECT VECTORS
Encephalitis surveillance in Harris County, Texas. 12388

Dengue fever in a Puerto Rican community. 12401

Inoculation of pea enation mosaic virus by the green peach, potato, and foxglove aphids. 12448

Distribution of phony peach vectors in South Carolina. 12495

Bluetongue of sheep and cattle: Past, present, and future. 12575

Transmission of attenuated and virulent bluetongue virus with Culicoides variipennis infected orally via sheep. 12616

Herbicide-insecticide formulations for control of the American dog tick. 12745

Study on the cattle ticks in Guadeloupe and Martinique. ii. Pathogenic agents transmitted by ticks. 12748

INSECTICIDE APPLICATION
Toxicity of insecticides to house crickets and bioassay of treated soils in the laboratory. 12318

Some factors affecting kill of the stable fly, Stomoxys calcitrans (L.), with insecticidal thermal aerosols. (abstract). 12322

Control of mosquito larvae with Dursban insecticide applied as a thermal fog. (abstract). 12400

Control of the iris borer with systemic insecticides. 12478

Field experiments with sterile males for eradication of the boll weevil. 12483

Minimum number of insecticide applications for the control of the European corn borer on sweet corn in Quebec. 12490

Systemic insecticides as lygus bug controls compatible with bee pollination on alfalfa. 12493

Bark vs foliage applications of insecticides for control of Psylla uncatoides on Acacia. 12499

Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

Bioassay of field treated soils to determine bioactivity and movement of insecticides. 12854

A low cost airboat for use in mosquito control. 12923

INSECTICIDE RESIDUES
Laboratory and field studies on mosquito control in waste disposal lagoons in Louisiana. (abstract). 12409

Effect of detergents and inorganic salts in water on the persistence and movement of insecticides in soils. 12797

Residues in foods. (Chlorinated pesticides). 12798

Thin-layer chromatoggraphic determination of carbaryl (Sevin) in some foods. 12799

Pesticides and the soil fauna; effects of Aldrin and DDT in an arable field. 12803

Retention of DDT and DDE by the bovine. 12805

Effect of different soil tillage methods on residual after-effect of simazine . vliyanie razlichnykh sposobov osnovnoi obrabotki pochvy na posledeistvie simazina. 12806

Field weathering of toxaphene and chlordane. 12807

Determination of nicotine residues on foods. 12808

Effect of thyroprotein and a low-energy ration on removal of DDT from lactating dairy cows. 12809

Procedure for nine organothiophosphate pesticide residues on fruits and vegetables, using microcoulometric gas chromatography. 12810

Dimethoate residues in eggs and tissues of laying hens. 12811

INSECTICIDE RESISTANT INSECTS

INSECTICIDE RESISTANT INSECTS
Joint action of SKF 525-A and sesamex insecticides in susceptible and resistant house flies. 12335

Factors affecting the toxicity of diazinon Musca domestica L. 12343

Resistance in Aedes aegypti to chemosterilants. effect of apholate selection on resistance to apholate, tepa, and metepa. 12368

A study of dieldrin in the house fly central nervous system in relation to dieldrin resistance. 12373

WARF anti-resistant: DDT selection and house fly cross-resistance. 12384

Genetic analysis of non-recessive factors of resistance to diazinon in the SKA strain of the housefly (Musca domestica L.). 12385

Insecticide tolerance in Culex tarsalis larvae in California. (abstract). 12411

Government Pest Infestation Laboratory (stored products and household pests). annual report, 1966. 12782

INSECTICIDES
Toxicity of insecticides to house crickets and bioassay of treated soils in the laboratory. 12318

Preventive measures for the protection of wood against Hylotrupes bajulus. 12354

WARF anti-resistant: DDT selection and house fly cross-resistance. 12384

Mosquito control agents derived from petrolem hydrocarbons: laboratory effectiveness. (abstract). 12399

Beneficial effects of research to mosquito control operations. 12410

1967 insecticide recommendations; apple insect control (commercial). 12489

Lesser cornstalk borer damage to peanut plants. 12501

Laboratory tests with promising insecticides for control of adult and larval stable flies. 12508

Preliminary evaluation of soil insecticide for sugar-beet root maggot control. 12514

Strategy of integrated pest control. 12515

1967 insecticide recommendations; forage crops insects. 12518

1967 insecticide recommendations; insects of cabbage, broccoli, cauliflower, and brussels sprouts. 12519

1967 insecticide recommendations; insects of growing Christmas trees. 12520

1967 insecticide recommendations; pests of greenhouse tomatoes. 12521

1967 insecticide recommendations; insects of tomatoes. 12522

1967 insecticide recommendations; insects of Irish potatoes. 12523

Swine toxicosis associated with fumigated grain. 12571

Acylsulfamoylphenyl phosphate warm-blooded animal systemic insecticides. patent 3,341,409. 12738

Herbicide-insecticide formulations for control of the American dog tick. 12745

Fluorescent dyes for marking and recovering fowl ticks in poultry houses treated with insecticides. 12746

Method for control of arthropods. patent 3,356,568. 12747

1967 insecticide recommendations; control insects in and around poultry houses. 12752

Method for controlling insects and worms with organophosphorus cyclic sulfone compositions. patent 3,341,407. 12760

Some insecticidal trials for the protection of til seeds in storage. 12785

Report on chlorinated insecticides and miticides. 12801

Diagnosis and treatment of adverse reactions in cattle treated for grubs with a systemic insecticide. 12822

Insecticidal compositions containing carbamates of 5- and 6-membered hetero-sulfur compounds and method of controlling insects with same. patent 3,338,782. 12840

Herbicidal and insecticidal composition. patent 3,348,940. 12841

Alkylphosphonothioates. patent 3,326,749. 12856

Novel insecticidal carbamate-propargylaryl ether compositions. patent 3,362,871. 12862

Compositions and methods for repelling insects with diamino sulfenes. patent 3,361,622. 12872

Tricyclic ketone insecticides and process therefor. patent 3,331,860. 12884

O,O-dialkyl S-(2-halo-1-(N-phthalimido)ethyl) phosphorodithioates and phosphorothioates as insecticides. patent 3,355,353. 12887

Method of killing insects with 5,6,7,8-tetrahydro-1-naphthyl-N-methyl-carbamate. patent 3,341,404. 12901

Gas chromatographic analysis of heptachlor content of formulations. 12904

Active toxicant O-(5-cyano-2-pyridyl)O,O-dialkyl phosphorothioate esters for controlling pests. patent 3,326,752. 12905

Thiokol swamp spryte equipped with automatic compressed air spraying units for applying granule and liquid insecticides. 12917

INSECTS
The horizontal and vertical distribution of flying insects near artificial windbreaks. 12301

1967 insecticide recommendations; forage crops insects. 12518

INTEGRATED CONTROL (INSECTS)
An experimental spray program for integrated control of insects affecting sour cherry. 12513

Strategy of integrated pest control. 12515

INTERFERON
Interferon production with strain Sf-4 of Parainfluenza-3 virus. 12696

INTESTINES
A viral gastroenteritis of Ontario swine. i. clinical illness and recovery of the virus. 12600

Determination of species of larvae of intestinal nematodes in sheep. 12766

IODINE
Determination of aphids in hops. 12791

IODINE ISOTOPES
An ecological study of Chaoborus. 12302

ION EXCHANGE
Note on a simplified ion exchange method for sulfamethazine in feeds. 12596

IONIZATION
Gas chromatographic determination of residues of organophosphorus pesticides with a modified flame ionization detector. 12865

IPS CONFUSUS
Factors influencing the response of Ips confusus (Coleoptera: Scolytidae) to male attractant. 12316

IRIS
Field experiments with oil sprays to prevent yellow mosaic virus in irises. 12425

Control of the iris borer with systemic insecticides. 12478

IRON
Method and compositions for enhancing the utilization of iron by mammals. patent 3,367,834. 12599

Supplying at least about 4 percent iron and a sweetening agent for the prevention of iron-deficiency anemia in baby pigs. patent 3,332,778. 12732

IRON ISOTOPES
e-59 and CR-51 studies of the effect of partial-body X-irradiation on Erythropoiesis in beagles. 12685

IRRIGATION
Ecological factors influencing the efficacy of mosquito control in irrigated pastures in California. (abstract). 12396

Systemic insecticides as lygus bug controls compatible with bee pollination on alfalfa. 12493

ISOMERS
Nomenclature of phosphamidon isomers. 12907

ISOPROPYLPHENYL N-METHYL-N-NITROSOCARBAMATE, M-
Pesticidal compositions of m-isopropylphenyl N-methyl-N-nitrosocarbamate. patent 3,345,256. 12881

IXODIDES
Study on the cattle ticks in Guadeloupe and Martinique. II. Pathogenic agents transmitted by ticks. 12748

JUGLONE
Juglone (5-hydroxy-1,4-naphthoquinone) from Carya ovata, a deterrent to feeding by Scolytus multistriatus. 12338

JUJUBE
Control of fruit flies Dacus zonatus Saunders by gamma-rays. 12350

KALE
Field weathering of toxaphene and chlordane. 12807

KENTUCKY
Occurrence of tobacco diseases in Kentucky in 1966. 12465

KETCHUP
Dilution method for mold count of catsup. 12793

KETONE-MALONATES
Pesticidal ketone-malonate adducts. patent 3,341,406. 12869

KETOSIS
Contribution to the therapy of acetonemia of cattle. 12689

KIDNEYS
Spontaneous pyelonephritis in dogs. 12683

LABORATORY ANIMALS
Low incidence of staphylococcal dermatitides in animals with high incidence of Staphylococcus aureus. 3. Preliminary study of laboratory animals. 12624

Untersuchungen uber die Vertraglichkeit der Coccidiostatica Amprolium und Zoalen. (Investigations on the tolerance of coccidiostats amprolium and zoalene.). 12818

LACTATION
Local immunity in the lactating mammary gland following the infusion of staphylococcal toxoids. 12682

Experimental Streptococcus agalactiae mastitis in cattle. attempts to superimpose the organism in lactating glands harboring unrelated bacterial infections and in glands with experimentally induced sterile inflammation. 12700

Effect of thyroprotein and a low-energy ration on removal of DDT from lactating dairy cows. 12809

LADINO CLOVER
Effect of cutting height on development of root rot in clover. 12447

LAMBERT MOTTLE (CHERRIES)
Effect of temperature and length of incubation on symptom development of Lambert mottle of sweet cherries. 12412

LARIX LARICINA
Determination of premature larval drop and other causes of larch sawfly mortality. 12352

LARVAE
The conversion of cholestanone to cholestanol by the house-fly, Musca domestica L. 12330

Some distinctions between the larvae and pupae of the Empididae and Dolichopodidae (Diptera). 12331

Heat tolerance of last-instar larvae of the larch sawfly, Pristiphora erichsonii (Hymenoptera: Tenthredinidae). 12348

Determination of prematnre larval drop and other causes of larch sawfly mortality. 12352

Effects of repeated haemolymph withdrawals and of ligaturing the head on differential haemocyte counts of Rhodnius prolixus Stal. 12353

Silking behavior of the gypsy moth, Porthetria dispar. 12357

Immature stages of some Lepidoptera of Durango, Mexico. 12362

Gamma irradiation of European corn borer larvae. 12370

Oviposition by onion maggot adults fed on a chemically defined diet. 12371

Biological observations on Coleomegilla maculata and its role as a predator of the fall webworm. 12380

Laboratory tests with promising insecticides for control of adult and larval stable flies. 12508

LARVICIDES
Hydrocyanic acid and other fumigants for control of larvae of Plemeliella abietina and Megastigmus sp. in imported spruce seed. 12517

Automatic water metering machine for mosquito larvicide tests. 12914

A low cost airboat for use in mosquito control. 12923

LARYNGOTRACHEITIS
Modified laryngotracheitis vaccine. patent 3,331,736. 12618

LASIODERMA SERRICORNE
A theoretical evaluation of population growth after removing individuals from some age groups. 12300

LAWNS
Rust on Zoysia in Arkansas. 12467

LEAD COMPOUNDS
Effects of organometallic compounds on Lepidoptera. 12528

LEAF BLIGHT (PEARS)
Fungicidal control of Fabraea leafspot of pear. 12422

LEAF BLOT (TAXUS)
Response of pineapple orange trees to selected petroleum oil fractions. 12816

LEAF SPOT (BEANS)
A new virulent form of Phaeoisariopsis griseola causing circular leaf spot of french beans. 12434

LEAF SPOT (PEARS)
Fungicidal control of Fabraea leafspot of pear. 12422

LEAVES
Leaf disk method of testing alfalfa plants for resistance to feeding by adult alfalfa weevils. 12479

LEGISLATION
Pests of stored products. sB937 .M8. 12786

Opportunities - hazards. 12931

LEGS

LEGS
The regeneration of motor axons in an insect. 12342

LEGUMES
Neem seed as a protectant against bruchid Callosohruchus maculatus (Fabricius) infesting some leguminous seeds. 12783

LEPIDOPTERA
Immature stages of some Lepidoptera of Durango, Mexico. 12362

LEPTOSPIRA POMONA
Streptomycin treatment of bovine carriers of Leptospira pomona. 12602

The effect of feeding oxytetracycline on leptospiruria in pigs infected with Leptospira pomona. 12603

Pathogensis of leptospiral abortion in cattle. 12672

LEPTOSPIROSIS
Immunofluorescence in the diagnosis of bovine fetal leptospirosis. 12712

LESPEDEZA STRIATA
Suitability of Kobe lespedeza for reproduction of isolates of the soybean cyst nematode from nine locations. 12534

LETTUCE
Tomato spotted wilt virus in lettuce crop in Argentina. 12452

Seed transmission of arabis mosaic virus in lettuce (Lactuca sativa). 12469

LEUCINODES ORBONALIS
Leucinodes orbonalis Guen. (Lepidopterai Pyralidae) as a serious pest of potato plants in Mysore state. 12509

LEUKEMIA
Immunologic competence of thymectomized neonatal calves. 12580

LEUKOCYTES
Segregation of a nonhemadsorbing African swine fever virus in tissue culture. 12586

LIGHT
Factors influencing the response of Ips confusus (Coleoptera: Scolytidae) to male attractant. 12316

Influence of light on diapause in the boll weevil. i. dependence of diapause response on the spectral composition of the light used to extend the photoperiod. 12346

Darkness and the activity of diguat and paraguat on tomato, broad bean and sugar beet. 12544

LIGHT TRAPS
Activity of tobacco hornworm and corn earworm moths as determined by traps equipped with blacklight lamps. 12377

Seasonal trends in catches of moths of the tobacco hornworm, tomato hornworm, and corn earworm in traps equipped with blacklight lamps in North Carolina. 12527

LIGNOSULFONIC ACIDS
Agricultural mulch and herbicidal composition and method. patent 3,341,318. 12855

LINDANE
Herbicide-insecticide formulations for control of the American dog tick. 12745

Some insecticidal trials for the protection of til seeds in storage. 12785

LINE PATTERN (PLUMS)
Host range, characteristics, and purification of plum line pattern virus. 12450

LINOGNATHUS VITULI
Controlling lice and chorioptic mange mites on dairy cattle. 12744

LIPIDS
Composition and possible significance of fatty acids in the lipid classes in honey bee semen. (chemistry of the drone honey bee reproductive system. 4.). 12314

The release of triglycerides and free fatty acids from the fat body of the cockroach, Periplaneta americana. 12324

The formation of lipid-bound carnitine derivatives in the fat body of Phormia regina. 12363

LIRIOMYZA
Insect abundances on tomatoes and squash mulched with aluminum and plastic sheetings. 12529

LISTERIA MONOCYTOGENES
Ecologic aspects of listeriosis. 12570

LISTERIOSIS
Listerioz sel'skokhozyaistvennykh zhivotnykh (listeriosis of livestock).sF849.15h3. 12562

Ecologic aspects of listeriosis. 12570

Die Listeriose des Rindes; Schrifttumsubersich. (Listeriosis of cattle; literature survey). 12576

An outbreak of listeriosis in chickens. 12673

LIVER DISEASES
Histological and electron-microscopic studies on experiental liver cirrhosis in ducklings produced by aflatoxin. 12645

LIVESTOCK
Listerioz sel'skokhozyaistvennykh zhivotnykh (listeriosis of livestock).sF849.15h3. 12562

Victory over brucellosis nears in california. 12583

Isolation and identification of the sporeforming anaerobes commonly encountered in domestic animals. 12635

Transmission of Toxoplasmosis through food consumption. 12692

Food additives permitted in the feed and drinking water of animals or for the treatment of food-producing animals. Verxite. 12724

Methods for controlling helminths in animals using certain organophosphorus compounds. patent 3,345,260. 12767

LIVESTOCK DISEASES
Versuche zur biologischen Bekampfung der Staphylokokken-Mastitis (Experiments on biological control of staphylococcal mastitis). 12615

An outbreak of listeriosis in chickens. 12673

Meaningful animal morbidity reporting. 12728

LOCOMOTION
The regeneration of motor axons in an insect. 12342

LOCUSTA MIGRATORIA
Seasonal movements of swarms of Locusta migratoria migratorioides (R. and f.) in western Africa in 1928 to 1931. 12296

LOOSE SMUT (OATS)
Distribution and prevalence of virulence for Victoria oats in Ustilago avenae. 12435

Race population dynamics in Ustilago avenae as related to the persistence of loose smut in oats. 12436

LOUISIANA
Soybean cyst nematode found in Louisiana. 12533

LUCILIA CUPRINA
Changes in the amounts of carbohydrates, phosphagen, and related compounds during the metamorphosis of the blowfly, Lucilia cuprina. 12326

LUMBER
Outbreaks and new records: United States. oriental wood borer, a new record. 12789

LUMBERYARDS
Outbreaks and new records: United States. oriental wood borer, a new record. 12789

LUPINE
Changes in blood serum transaminase associated with lupine and larkspur poisoning in cattle. 12705

Observations on crooked calf disease. 12707

Lupine, a cause of crooked calf disease. 12708

LYGUS ELISUS
Systemic insecticides as lygus bug controls compatible with bee pollination on alfalfa. 12493

LYGUS HESPERUS
Systemic insecticides as lygus bug controls compatible with bee pollination on alfalfa. 12493

LYGUS LINEOLARIS
Relationship between the tarnished plant bug and deformed cotton plants. 12524

LYMPHOCYTOMA
Research note: Dietary influence of a cod liver oil fraction on avian lymphocytoma. 12638

LYMPHOSARCOMA
Cytogenetic studies in canine lymphosarcoma. 12566

MACRONOCTUA ONUSTA
Control of the iris borer with systemic insecticides. 12478

MACROSIPHUM AVENAE
Predominating strains of barley yellow dwarf virus in New York: changes during ten years. 12457

MACROSIPHUM EUPHORBIAE
Inoculation of pea enation mosaic virus by the green peach, potato, and foxglove aphids. 12448

MAGGOTS
Extraneous materials in mushrooms. 12779

MAGNESIUM
Effect of dietary organic phosphorus on magnesium metabolism in sheep. 12608

Influence of dietary magnesium on metabolism of calcium and magnesium in sheep. 12627

MAGNETS
Kontrollierte Behandlungsversuche bei fremdkorperkranken Rindern mit dem Katig-Magneten; Modell Rinderklinik Hanover (Controlled-treatment experiments with permanent magnets of foreign body diseased cattle (Hanover Cattle clinic model). 12585

MALARIA
World-wide mosquito control, a growing public health need. 12404

MALATHION
Insecticide tolerance in Culex tarsalis larvae in California. (abstract). 12411

Low-volume aerial spraying of several insecticides for cotton-insect control. 12476

1967 insecticide recommendations; forage crops insects. 12518

Horn fly and face fly control on range cattle with aerial applications of ultra-low-volume malathion sprays. 12741

Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

Procedure for nine organothiophosphate pesticide residues on fruits and vegetables, using microcoulometric gas chromatography. 12810

Toxicity of ODT, dieldrin, malathion and fenthion to Rhodnius prolixus in the laboratory. 12817

Note on the colorimetric method for malathion in formulations containing emulsifiers. 12874

An improved technique for aerial applications of ultra-low-volume materials to experimental plots. 12912

MAMMALS
Method and compositions for enhancing the utilization of iron by mammals. patent 3,367,834. 12599

MAMMARY GLANDS
Metastatic mammary tumours in the dog. i. clinico-pathological studies on mammary carcinomai. metastasierte Mammatumoren beim Hund. i. Klinisch-pathologische Untersuchungen uber Mammakarzinome. 12679

Metastatic mammary tumours in the dog. ii. clinico-pathological studies on mammary sarcoma and carcino-sarcoma). Metastasierte Mammatumoren beim Hund. ii. Klinisch-pathologische Untersuchungen uber Sarkome und Karzinosarkome der Milchdruse. 12680

Local immunity in the lactating mammary gland following the infusion of staphylococcal toxoids. 12682

Experimental Streptococcus agalactiae mastitis in cattle. attempts to superimpose the organism in lactating glands harboring unrelated bacterial infections and in glands with experimentally induced sterile inflammation. 12700

MANDUCA QUINQUEMACULATA
Seasonal trends in catches of moths of the tobacco hornworm, tomato hornworm, and corn earworm in traps equipped with blacklight lamps in North Carolina. 12527

MANDUCA SEXTA
Activity of tobacco hornworm and corn earworm moths as determined by traps equipped with blacklight lamps. 12377

Seasonal trends in catches of moths of the tobacco hornworm, tomato hornworm, and corn earworm in traps equipped with blacklight lamps in North Carolina. 12527

MANEB
A storage decay of Crownvetch (Coronilla varial "crowns" caused by Fusarium roseum and its control by fungicide dip treatments. 12776

MANGANESE ETHYLENE BIS-DITBIOCARBAMATES
Fungicidal compositions containing manganese ethylene bis-dithiocarbamates and an aminoacetic acid derivative and method of using same. patent 3,362,873. 12895

MANGOES
Five new phytoseid mites from O.a.r., with collection notes on three other species (Acarina: Phytoseiidae). 12298

Control of fruit flies Dacus zonatus Saunders by gamma-rays. 12350

MANURES
Inhibitive effect of Bacillus thuringiensis on the development of the face fly in cow manure. 12740

MARETIN
Therapeutic trials with Maretin in calves infected with Ostertagia and Cooperia. 12774

MASTITIS
Versuche zur biologischen Bekampfung der Staphylokokken-Mastitis (Experiments on biological control of staphylococcal mastitis). 12615

Experimental Streptococcus agalactiae mastitis in cattle. attempts to superimpose the organism in lactating glands harboring unrelated bacterial infections and in glands with experimentally induced sterile inflammation. 12700

Experimental Pseudomonas aeruginosa mastitis in cattle. 12701

MATHEMATICAL ANALYSIS
A theoretical evaluation of population growth after removing individuals from some age groups. 12300

The population genetics of the potato cyst-nematode, Heteroda rostochiensis: Mathematical moiels to simulate the effects of growing eelworm-resistant potatoes bred from Solanum tuberosum ssp andigena. 12538

MAZZARD CHERRIES
Effect of temperature and length of incubation on symptom development of Lambert mottle of sweet cherries. 12412

Cytospora canker on sweet cherry in New York State: association with winter injury and pathogenicity to other

MEAL
species. 12438

MEAL
Determination of 3-amino-1,2,4-triazole in crops. 12800

MEGACHILE ROTUNDATA
Systemic insecticides as lygus bug controls compatible with bee pollination on alfalfa. 12493

MEGASTIGMUS
Hydrocyanic acid and other fumigants for control of larvae of Plemeliella abietina and Megastigmus sp. in imported spruce seed. 12517

MELOIDOGYNE HAPLA
Euphorbia lagascae, a new host of Sclerotium rolfsii and a root-knot nematode, Meloidogyne hapla. 12470

MELOIDOGYNE INCOGNITA
Reduction of root knot of tomatoes with crop residue amendments in field experiments. 12537

MELOIDOGYNE JAVANICA
Observations on the effect of sawdust on incidence of root knot and on yield of okra and tomatoes in nematode-infested soil. 12541

MELOPHAGUS OVINUS
Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

MENTHA
Factors influencing the population fluctuation of Pratylenchus penetrans in soils of high organic content. i. effect of soil fumigants and different crop plants. 12535

MENTHA PIPERITA
Effects of host species on population changes of Pratylenchus penetrans (Cobb, 1917) Filipjev and schuurmans Stekhoven, 1941. 12543

MERCURY COMPOUNDS
Chronic mercurial poisoning in swine. a case report of an outbreak with some epidemiological characteristics of hog cholera. 12637

METABOLISM
Effect of dietary organic phosphorus on magnesium metabolism in sheep. 12608

Influence of dietary magnesium on metabolism of calcium and magnesium in sheep. 12627

METAL PHOSPHIDES
Metal phosphide pesticides. patent 3,372,088. 12866

METAMORPHOSIS
Abnormalities of growth and metamorphosis in some pyrrhocorid bugs. the paper factor. 12319

Changes in the amounts of carbohydrates, phosphagen, and related compounds during the metamorphosis of the blowfly, Lucilia cuprina. 12326

Immature stages of some Lepidoptera of Durango, Mexico. 12362

Effects of bovine diet on oviposition, larval development, and pupation of the face fly, Musca autumnalis DeGeer. 12753

METEPA
Resistance in Aedes aegypti to chemosterilants. effect of aphoate selection on resistance to aphoate, tepa, and metepa. 12368

METHYL ARSINE OXIDE
Methyl arsine oxide method of controlling soil-borne pythium fungi. patent 3,338,780. 12461

METHYL PARATHION
Toxicity of five insecticides to several insect predators. 12358

Low-volume aerial spraying of several insecticides for cotton-insect control. 12476

Low-volume dusts for control of the cotton bollworm. 12502

METHYLTHIO-4-ISOPROPYLAMINO-6-(GAMMA-METHOXYPROPYLAMINO)-S-T
Herbicidal 2-methylthio-s-triazines. patent 3,326,914. 12896

METHYLTHIO-5,6-DICHLOROBENZIMIDAZOLE, 2-
Herbicidal benzimidazole. 12853

MEXICO
Immature stages of some Lepidoptera of Durango, Mexico. 12362

MICE
Comparative studies on immunogenicity of Arizona (7:1,7,8) adjuvant bacterins in mice and turkeys. 12668

Versuche zur Beeinflussung von Acetylcholin, Neguvon und Asuntol durch Atropin (Experiments for influencing acetylcholine, neguvon and asuntol with atropine). 12815

MICROMETERS
Extraneous materials in mushrooms. 12779

MICROORGANISMS
Index to genera of pathogens listed in the "index of Plant Diseases in the United States". 2. 12432

Microbial persistence and latent infection. 12665

A method for studying microbial penetration through the outer structures of the avian egg. 12794

Method for combatting microorganisms. patent 3,345,257. 12861

MILK ANALYSIS
Streptococcus agalactie: a frequent cause of high bacteria count in milk. 12688

MILK FEVER
Potassium and its role in parturient paresis. 12636

MILKERS' NODULES VIRUS
Comparative investigations on stomatitis papulosa, pseudocowpox, and milkers' nodules virus strains. 12651

MINERAL OIL
Field experiments with oil sprays to prevent yellow mosaic virus in irises. 12425

MITES
Five new phytoseid mites from U.a.r., with collection notes on three other species (Acarina: Phytoseiidae). 12298

Pests of stored products. S8937 .M8. 12786

Climate and potential range of distribution of stored-product mites in Japan. 12788

Sampling mites on douglas-fir foliage with the Henderson-McBurnie machine. 12913

MOLASSES-SALT BLOCKS
Bloat in cattle. XIII. efficacy of molasses-salt blocks containing poloxalene in control of alfalfa bloat. 12715

MOLDS
Dilution method for mold count of catsup. 12793

MOLECULES
Rate constants of hydrated electron reactions with peptides and proteins. 12851

MOLLUSCACIDES
Ethers useful as molluscacides and piscicides. patent 3,349,102. 12850

MOLTING (INSECTS)
Effects of repeated haemolymph withdrawals and of ligaturing the head on differential haemocyte counts of Rhodnius prolixus Stal. 12353

MONIEZIASIS
Trials of simultaneous treatment of gastro enteritic strongylosis and monieziasis of cattle with a mixture of thiabendazole and niclosamide. 12757

MORTALITY
Heat tolerance of last-instar larvae of the larch sawfly, Pristiphora erichsonii (Hymenoptera: Tenthredinidae). 12348

Determination of premature larval drop and other causes of

larch sawfly mortality. 12352

The suitability of a nematode (Ed-136) for the control of some pasture insects. 12372

Effect of host plants on the survival, development and behaviour of Chilo zonellus (Swinhoe) under laboratory conditions. 12496

Meaningful animal morbidity reporting. 12728

MOSAIC (CORN)
Occurrence of a mosaic disease of sweet sorghum in four southern states. 12475

MOSAIC (FIGS)
Fig mosaic. 12417

MOSAIC (LETTUCE)
Seed transmission of arabis mosaic virus in lettuce (Lactuca sativa). 12469

MOSAIC (SUGARCANE)
Occurrence of a mosaic disease of sweet sorghum in four southern states. 12475

MUELLERIUS CAPILLARIS
Observations on Muellerius capillaris (Muller, 1889) Cameron, 1927. III. experimental infection of sheep. 12756

MULCHES
Effects of planting depth and asphalt mulch on Rhizoctonia root and hypocotyl rot of snapbean. 12441

Insect abundances on tomatoes and squash mulched with aluminum and plastic sheetings. 12529

Agricultural mulch and herbicidal composition and method. patent 3,341,318. 12855

MUMPS VIRUS
Fluorescein-labeled goat milk antibodies: Use in detection of mumps virus in tissue culture. 12699

MUSCA AUTUMNALIS
Calcification, tanning, and the role of ecdyson in the formation of the puparium of the facefly, Musca autumnalis. 12337

Laboratory evaluation of two aleocharine parasites of the face fly. 12382

Inhibitive effect of Bacillus thuringiensis on the development of the face fly in cow manure. 12740

Horn fly and face fly control on range cattle with aerial applications of ultra-low-volume malathion sprays. 12741

Effects of bovine diet on oviposition, larval development, and pupation of the face fly, Musca autumnalis DeGeer. 12753

MUSCA DOMESTICA
Factors affecting the toxicity of diazinon Musca domestica L. 12343

Metabolism of hempa uniformly labeled with C14 in male house flies. 12320

The conversion of cholestanone to cholestanol by the housefly, Musca domestica L. 12330

Joint action of SKF 525-A and sesamex insecticides in susceptible and resistant house flies. 12335

A study of dieldrin in the house fly central nervous system in relation to dieldrin resistance. 12373

Effect of aeration on gamma irradiation of house fly pupae. 12375

WARF anti-resistant: DDT selection and house fly cross-resistance. 12384

Genetic analysis of non-recessive factors of resistance to diazinon in the SKA strain of the housefly (Musca domestica L.). 12385

MUSCLES
The regeneration of motor axons in an insect. 12342

MUSHROOMS
Extraneous materials in mushrooms. 12779

MUSTARD GREENS
Determination of nicotine residues on foods. 12808

MYCOBACTERIUM AVIUM
Mycobacterium avium infection in cattle: A case series. 12582

MYCOBACTERIUM BOVIS
Pulmonary bovine tuberculosis in an owner and in his dairy herd. 12563

MYCOPLASMA
Basic biological characteristics of Mycoplasma. 12656

A mycoplasma associated with ovine orchitis. 12664

Swine mycoplasma. 12718

MYCOPLASMA GALLISEPTICUM
Mycoplasma gallisepticum in a commercial laryngotracheitis vaccine. 12567

Studies on the transmission of the infectious bursal agent (IBA) of chickens. 12568

Mycoplasmal salpingitis of chickens and turkeys. 12604

Case report: Isolation of Mycoplasma gallisepticum from Bobwhite quail (Colinus virginianus). 12655

Mycoplasma gallisepticum in the respiratory tract of the fowl. 12666

The action of Mycoplasma gallisepticum upon chicken, rabbit, and cow erythrocytes. 12736

MYCOPLASMOSIS
Mycoplasma gallisepticum in the respiratory tract of the fowl. 12666

MYCOSIS
Systemic mycosis in neonatal calves. 12587

MYZUS PERSICAE
Inoculation of pea enation mosaic virus by the green peach, potato, and foxglove aphids. 12448

Host range, characteristics, and purification of plum line pattern virus. 12450

Insect abundances on tomatoes and squash mulched with aluminum and plastic sheetings. 12529

NABIS AMERICOFERUS
Toxicity of five insecticides to several insect predators. 12358

NALED
Some factors affecting kill of the stable fly, Stomoxys calcitrans (L.), with insecticidal thermal aerosols. (abstract). 12322

Laboratory and field studies on mosquito control in waste disposal lagoons in Louisiana. (abstract). 12409

NARCOSIS
Die Propanidid, Epontol WZ, Narkose beim Hund. (Propanidid (Epontol WZ) narcosis of dog). 12828

NATURAL CONTROL (INSECTS)
Potential for naturalistic control of mosquitoes. 12389

NAVICULAR DISEASE
Clinical examination and diagnosis of the diseased equine foot. 12667

NECROSIS
Euphorbia lagascae, a new host of Sclerotium rolfsii and a root-knot nematode, Meloidogyne hapla. 12470

Studies on the pathogenesis of muscle necrosis in plasmocid intoxication. 12691

NECTRIA GALLIGENA

NECTRIA GALLIGENA
An unusual occurrence of eye rot of apple in California due to Nectria galligena. 12443

NEMATOCIDES
Method of killing nematodes with bis(1,2-dichloroethyl) sulfone, patent 3,362,870. 12531

Reduction of root knot of tomatoes with crop residue amendments in field experiments. 12537

Method for controlling microorganisms and nematodes. patent 3,361,621. 12539

Therapeutic trials with Maretin in calves infected with Ostertagia and Cooperia. 12774

Halogenated aromatic pesticidal compositions for controlling fungi, bacteria and nematodes. patent 3,331,735. 12845

NEMATODA
Tetrameres sp. (Nematoda: Spiruridae) found in pigeons (Columba livia) in Kansas and Oklahoma. 12758

NEMATODES
Method for controlling insects and worms with organophosphorus cyclic sulfone compositions. patent 3,341,407. 12760

Determination of species of larvae of intestinal nematodes in sheep. 12766

Control of endoparasites of animals. patent 3,344,021. 12772

NEMATOMORPHA
Method for controlling insects and worms with organophosphorus cyclic sulfone compositions. patent 3,341,407. 12760

NEOPLASMS
Research note: Dietary influence of a cod liver oil fraction on avian lymphocytoma. 12638

Porcine nephroblastoma. 12639

Antibiotic anti-tumor agents and method of producing same. patent 3,366,540. 12720

NEPHROBLASTOMA
Porcine nephroblastoma. 12639

NERVES
Structure and function of the extraneural sheath in insects. 12297

The regeneration of motor axons in an insect. 12342

NERVOUS SYSTEM
The derivation of the motor command to the spiracles of the locust. 12364

NEW YORK
Predominating strains of barley yellow dwarf virus in New York: changes during ten years. 12457

NEW ZEALAND
A survey of abortions and long return intervals in dairy herds in the Huntly district. 12670

NEWCASTLE DISEASE
Post-mortem serological diagnosis of Newcastle disease. 12690

NEWCASTLE DISEASE VACCINES
The immune response of chickens to Newcastle disease vaccine PP 113. 12565

NEWCASTLE DISEASE VIRUS
Infectious bronchitis virus interference with Newcastle disease virus in monolayers of chicken kidney cells. 12564

Mycoplasma gallisepticum in a commercial laryngotracheitis vaccine. 12567

The use of plaque morphology in the study of Newcastle disease virus. 12595

NICLOSAMIDE
Trials of simultaneous treatment of gastro enteritic strongylosis and monieziasis of cattle with a mixture of thiabendazole and niclosamide. 12757

NICOTINE
Determination of nicotine residues on foods. 12808

NIGERIA
Fusarium scab of sorghum in Nigeria. 12427

NISIN
Versuche zur biologischen Bekampfung der Staphylokokken-Mastitis (Experiments on biological control of staphylococcal mastitis). 12615

NITROFURANTOINS
Anti-microbial therapeutics consisting of nitrofurantoin, tetracycline, and D-glucosamine. patent 3,328,258. 12864

NITROGEN
Changes in the nitrogen balance and serum proteins during an attack of distemper and coccidiosis in the dog. 12755

Respiration of confused flour beetle adults in CO2 or N2 and after sublethal fumigation. 12781

NOMENCLATURE
Nomenclature of phosphamidon isomers. 12907

OAT STRAW
Reduction of root knot of tomatoes with crop residue amendments in field experiments. 12537

OATS
Distribution and prevalence of virulence for Victoria oats in Ustilago avenae. 12435

Race population dynamics in Ustilago avenae as related to the persistence of loose smut in oats. 12436

Effect of oat hulls and other oat fractions on the development of gastric ulcers in swine. 12660

ODONATA
The dragonflies (Odonata: Anisoptera) of southern Florida. 12304

Dragonflies as beneficial insects of forest communities. 12313

OESTRUS OVIS
A survey of sheep bot fly larva infestations in Kentucky. 12742

OIL PLANTS
Euphorbia lagascae, a new host of Sclerotium rolfsii and a root-knot nematode, Meloidogyne hapla. 12470

OILS
Field experiments with oil sprays to prevent yellow mosaic virus in irises. 12425

OKRA
Control of fruit flies Dacus zonatus Saunders by gamma-rays. 12350

Observations on the effect of sawdust on incidence of root knot and on yield of okra and tomatoes in nematode-infested soil. 12541

OLFACTORY RECEPTORS
Electrophysiological studies of olfactory receptor cells in the antennae of female mosquitoes (Aedes aegypti L.). 12355

ONCOMETOPIA ORBANA
Distribution of phony peach vectors in South Carolina. 12495

ONCOPERA FASCICULATA
The suitability of a nematode (Dd-136) for the control of some pasture insects. 12372

ONIONS
Oviposition by onion maggot adults fed on a chemically defined diet. 12371

Factors influencing the population fluctuation of Pratylenchus penetrans in soils of high organic content. i. effect of soil fumigants and different crop plants. 12535

Effects of host species on population changes of Pratylenchus penetrans (Cobb, 1917) Filipjev and Schuurmans Stekhoven, 1941. 12543

ORANGES
Response of pineapple orange trees to selected petroleum oil fractions. 12816

ORGANIC COMPOUNDS
Effects of organometallic compounds on Lepidoptera. 12528

ORGANOPHOSPHORUS COMPOUNDS
Method for controlling insects and worms with organophosphorus cyclic sulfone compositions. patent 3,341,407. 12760

Methods for controlling helminths in animals using certain organophosphorus compounds. patent 3,345,260. 12767

Procedure for nine organothiophosphate pesticide residues on fruits and vegetables, using microcoulometric gas chromatography. 12810

Hemic concentrations of oximes given intravenously to cattle. 12824

Gas chromatographic determination of residues of organophosphorus pesticides with a modified flame ionization detector. 12865

Note on some operating parameters of a halogen detector constructed and utilized for gas-liquid chromatography. 12921

ORISATEI
The vectors of Stilesia globipunctata (Rivolta, 1874) of sheep. 12759

ORIUS INSIDIOSUS
Toxicity of five insecticides to several insect predators. 12358

ORNAMENTAL PLANTS
Pseudoplusia includens: a pest of floricultural crops in southern California. 12507

OSTEITIS
Clinical examination and diagnosis of the diseased equine foot. 12667

OSTEOCHONDROSIS
Osteochondritis dissecans in the humeral head of the dog; comparison of results achieved with conservative and surgical treatment. 12569

OSTERTAGIA
Therapeutic trials with Maretin in calves infected with Ostertagia and Cooperia. 12774

OSTRINIA NUBILALIS
Survival and development of European corn borers fed gossypol in artificial diets. 12344

Gamma irradiation of European corn borer larvae. 12370

Chemosterilization of male European corn borers by feeding of tepa and apholate to larvae. 12488

Minimum number of insecticide applications for the control of the European corn borer on sweet corn in Quebec. 12490

2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one (dimboa), an active agent in the resistance of maize to the European corn borer. 12498

OTHONIUS
The suitability of a nematode (Dd-136) for the control of some pasture insects. 12372

OULEMA MELANOPUS
Termination of diapause in the cereal leaf beetle by hormones. 12323

OVARIES
Salpingo-ovario-bursitis amongst buffaloes. 12641

OVIPOSITION
A method of determining rate and time of egg deposition by insects. 12315

Oviposition by onion maggot adults fed on a chemically defined diet. 12371

Comparative oviposition selection preference by Aedes dorsalis and Aedes nigromaculis to three inorganic salts in the laboratory. (abstract). 12405

Some environmental factors affecting feeding, oviposition, and survival of the southern corn rootworm. 12480

OVULATION
Effects of bovine diet on oviposition, larval development, and pupation of the face fly, Musca autumnalis DeGeer. 12753

OXIMES
Hemic concentrations of oximes given intravenously to cattle. 12824

OXYGEN
Active transport of potassium and oxygen consumption in the isolated midgut of Hyalophora cecropia. 12347

Effect of aeration on gamma irradiation of house fly pupae. 12375

Respiration of the confused flour beetle in five atmospheres of varying CO2:O2 ratios. 12780

OXYTETRACYCLINE
Eradication of the seedborne inoculum of Xanthomonas oryzae by hot water treatment of paddy seeds. 12463

The effect of feeding oxytetracycline on leptospiruria in pigs infected with Leptospira pomona. 12603

OXYTROPIS
The effect of loco plant on libido and fertility in rams. 12706

PANONYCHUS CITRI
Improved laboratory methods for rearing the citrus red mite. 12481

PARAINFLUENZA-3
The presence of antibodies in the ovine serum inhibiting the hemagglutination by myxovirus parainfluenza. 12612

PARAINFLUENZA-3 VIRUS
Interferon production with strain Sf-4 of Parainfluenza-3 virus. 12696

PARAQUAT
Darkness and the activity of diquat and paraquat on tomato, broad bean and sugar beet. 12544

Changes in composition of potato tubers following applications of defoliants. 12837

PARASITES
The vectors of Stilesia globipunctata (Rivolta, 1874) of sheep. 12759

PARASITIC PLANTS
Inoculation of monterey pine with dwarf mistletoe from bishop pine. 12550

PARASITISM
Determination of premature larval drop and other causes of larch sawfly mortality. 12352

The suitability of a nematode (Dd-136) for the control of some pasture insects. 12372

Biology and distribution of Tetrastichus incertus, a parasite of the alfalfa weevil. 12378

Laboratory evaluation of two aleocharine parasites of the face fly. 12382

Discovery of the pea aphid parasite Aphidius smithi, in central Mexico. 12482

Parasitism of the alfalfa weevil in the Western Plains States from 1963 to 1966. 12486

Research note: Incidence of endoparasitism in a group of pigeons in the Chicago area. 12634

Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

PARATBICN

PARATBICN
Effect cf detergents and inorganic salts in water on the persistence and movement of insecticides in soils. 12797

Procedure for nine organothiophosphate pesticide residues on fruits and vegetables, using microcoulcmetric gas chrcmatcgraphy. 12810

Bioassay of field treated soils to determine bioactivity and movement of insecticides. 12854

PARESIS
Udder insufflation and its physiologic basis for treatment of parturient paresis in cattle. 12661

PASPALOM DILATATOM
Ergot poisoning of cattle grazing Dallisgrass. 12621

PASTEURELLOSIS
Pasteurellosis in wild birds in Massachusetts. 12611

PASTURES
Ecological factors influencing the efficacy of mosquito contrcl in irrigated pastures in California. (abstract). 12396

PATENTS
Method cf controlling soil fungi with bis(chloromethyl)disulfide. patent 3,360,430. 12429

Dimethyl sulfoxide inhibiticn and control of plant virus diseases. patent 3,334,012. 12433

Methyl arsine oxide method of controlling soil-borne pythium fungi. patent 3,338,780. 12461

Process for controlling spring dead spot on grass. patent 3,323,985. 12464

Method for control of powdery mildew. patent 3,323,986. 12468

Method of disinfecting seeds. patent 3,366,538. 12472

Method of killing nematodes with bis(1,2-dichloroethyl) snlfone, patent 3,362,870. 12531

Method for controlling microorganisms and nematodes. patent 3,361,621. 12539

Method of selectively destroying weeds. patent 3,332,768. 12545

Pyridazones and method for controlling vegetation. patent 3,326,660. 12551

Method for killing potato vines with ammonia. patent 3,331,675. 12552

Treatment cf arteriosclerotic diseases. patent 3,337,406. 12597

Method and compositions for enhancing the utilization of iron by mammals. patent 3,367,834. 12599

Modified laryngotracheitis vaccine. patent 3,331,736. 12618

Avian leukosis treatment with inactivated rous sarcoma virus. patent 3,326,767. 12631

Brncellosis antigens. patent 3,342,684. 12650

Carbanilide compositions and methods of using same. patent 3,340,145. 12659

Precipitation of bacitracin upon an inert, insolnble, inorganic support for use in animal feeds. patent 3,345,178. 12671

Antibiotic anti-tumor agents and method of prodncing same. patent 3,366,540. 12720

Snpplying at least about 4 percent iron and a sweetening agent for the prevention of iron-deficiency anemia in baby pigs. patent 3,332,778. 12732

Acylsulfamoylphenyl phosphate warm-blooded animal systemic insecticides. patent 3,341,409. 12738

Method for control cf arthropods. patent 3,356,568. 12747

Method for controlling insects and worms with organophosphorus cyclic sulfone compositions. patent 3,341,407. 12760

Anthelmintic compositions and methods of nsing same. patent 3,360,433. 12761

Coccidiostatic compositions and methods of nsing same. patent 3,351,525. 12764

Methods for controlling helminths in animals nsing certain organophosphorus componnds. patent 3,345,260. 12767

Compositions and methods for the treatment and prevention of coccidiosis in poultry. patent 3,337,401. 12768

Anthelmintic compositions and methods of nsing same. patent 3,340,144. 12771

Control of endoparasites of animals. patent 3,344,021. 12772

3-1odo-4-hydroxy-5-nitrobenzonitrile as an anthelmintic. patent 3,331,738. 12773

Composition and method for stimulating seed germination and plant growths. patent 3,331,678. 12825

Method of stimulating plant growth. patent 3,361,555. 12829

Plant defoliation process and composition. patent 3,342,582. 12830

Method of promoting matnration of cotton plants. patent 3,352,660. 12831

Bromopyridazones and process for regnlating plant growth. patent 3,323,892. 12833

Method for regulating growth of plants. patent 3,326,659. 12834

Method of regulating growth of plants. patent 3,326,662. 12835

Method of tobacco sucker control. patent 3,340,040. 12836

Method of desnckering tobacco plants with azo-, hydrazo-, and azoxy-benzenes. patent 3,361,553. 12838

Defoliation process employing 3-amino-3-carboxypropyl methyl sulfoximine hydrogen sulfate. patent 3,323,895. 12839

Insecticidal compositions containing carbamates of 5- and 6-membered hetero-snlfnr compounds and method of controlling insects with same. patent 3,338,782. 12840

Herbicidal and insecticidal composition. patent 3,348,940. 12841

Antibiotic armentomycin and a process for prodncing the same. patent 3,342,681. 12842

Antibiotic asperlin and process for prodncing nsing aspergillus nidulans. patent 3,366,541. 12843

Alkyd resins with herbicidal properties. patent 3,343,941. 12844

Halogenated aromatic pesticidal compositions for controlling fungi, bacteria and nematodes. patent 3,331,735. 12845

Acetyl substituted phenoxyacetamides and their nse as herbicides. patent 3,371,106. 12846

Bifamycin type antibiotic compounds. patent 3,338,888. 12847

Ethers useful as molluscacides and piscicides. patent 3,349,102. 12850

Herbicidal compositions and process. patent 3,342,585. 12852

Agricnltural mulch and herbicidal composition and method. patent 3,341,318. 12855

Alkylphosphonothioates. patent 3,326,749. 12856

Destroying undesired vegetation with halobenzylcarbamates. patent 3,328,154. 12857

Controlling vegetation with azabicyclononanecarbothiolates.

patent 3,343,942. 12858

Pesticidal compounds and their use. patent 3,371,107. 12859

Herbicidal clay formulation. patent 3,362,810. 12860

Method for combatting microorganisms. patent 3,345,257. 12861

Novel insecticidal carbamate-propargylaryl ether compositions. patent 3,362,871. 12862

Pyridazone derivatives and their use as plant growth regulants. patent 3,336,130. 12863

Anti-microbial therapeutics consisting of nitrofurantoin, tetracycline, and D-glucosamine. patent 3,328,258. 12864

Metal phosphide pesticides. patent 3,372,088. 12866

Herbicidal substituted phenoxy acylamides. patent 3,326,942. 12867

3-arylaminopolyhalocycloalk-2-en-1-ones as herbicides. patent 3,360,359. 12868

Pesticidal ketone-malonate adducts. patent 3,341,406. 12869

Fungicidally active fluorochlorocyclohexylcyclohexeneones and process for controlling fungus infestations therewith. patent 3,338,781. 12870

Polynitro halo compounds useful as antibiotics, fungicides and explosives. patent 3,359,334. 12871

Compositions and methods for repelling insects with diamino sulfenes. patent 3,361,622. 12872

Method and compositions for the control of plant pathogens with mercurial sulfolanes. patent 3,361,625. 12873

Para xylylene bis (phosphonous acid) bis (anilino) compounds useful as anti-bacterial agents. patent 3,366,678. 12875

Herbicidal composition and method. patent 3,330,643. 12876

Method for controlling plant growth. patent 3,326,658. 12877

Method of inhibiting bacteria with tetramic acid and derivatives thereof. patent 3,361,626. 12878

Agricultural chemical compositions. patent 3,333,942. 12879

Process for the preparation of penicillins. patent 3,372,158. 12880

Pesticidal compositions of m-isopropylphenyl N-methyl-N-nitrosocarbamate. patent 3,345,256. 12881

Antibiotic erizomycin and process for making same. patent 3,367,833. 12882

Viscous aqueous preparations. patent 3,341,319. 12883

Tricyclic ketone insecticides and process therefor. patent 3,331,860. 12884

Herbicidal composition and method employing 4,4'-bipyridylium quaternary salts. patent 3,340,041. 12885

Method of controlling plant growth. patent 3,328,156. 12886

O,O-dialkyl S-(2-halo-1-(N-phthalimido)ethyl) phosphorodithioates and phosphorothioates as insecticides. patent 3,355,353. 12887

Herbicidal methods and compositions employing 3,4-dichloro-phenyl dimethyl and methylethyl ureas. patent 3,343,943. 12888

Sulfinyl- and sulfonylpyridine pesticidal compositions and method of use. patent 3,371,011. 12889

Solvent system for formulating carbamates. patent 3,342,673. 12890

Halo-meta-isopropylphenyl n-methylcarbamates and pesticidal compositions. patent 3,341,401. 12891

Pesticidal methods and compositions employing bicyclic carbamyloximes. patent 3,332,839. 12892

Method of controlling fungi with n-thio-monofluoro-dichloro-methyl imides. patent 3,341,403. 12894

Fungicidal compositions containing manganese ethylene bis-dithiocarbamates and an aminoacetic acid derivative and method of using same. patent 3,362,873. 12895

Herbicidal 2-methylthio-s-triazines. patent 3,326,914. 12896

Method of destroying undesired plant growth. patent 3,351,456. 12897

Non-selective herbicidal method. patent 3,360,358. 12899

Antibiotic AV290 and production thereof. patent 3,338,786. 12900

Method of killing insects with 5,6,7,8-tetrahydro-1-naphthyl -N-methyl-carbamate. patent 3,341,404. 12901

Method of controlling growth of bacteria using 4-methyl-1-benzo(f)quinolone-2-carboxylic acid. patent 3,324,003. 12902

Bactericidal 4-chloro-2-cyclopentylphenol. patent 3,323,988. 12903

Active toxicant O-(5-cyano-2-pyridyl)O,O-dialkyl phosphorothioate esters for controlling pests. patent 3,326,752. 12905

Spraying apparatus and method. patent 3,340,087. 12920

PEACHES
Control of fruit flies Dacus zonatus Saunders by gamma-rays. 12350

Cytospora canker on sweet cherry in New York State: association with winter injury and pathogenicity to other species. 12438

Distribution of phony peach vectors in South Carolina. 12495

PEANUTS
Sclerotium rolfsii and its control on tomato and peanut. 12473

Some environmental factors affecting feeding, oviposition, and survival of the southern corn rootworm. 12480

Insect preference for peanut varieties. 12500

Lesser cornstalk borer damage to peanut plants. 12501

PEARLMILLET
Effect of host plants on the survival, development and behaviour of Chilo zonellus (Swinhoe) under laboratory conditions. 12496

PEARS
Fungicidal control of Fabraea leafspot of pear. 12422

Viruses mechanically transmitted from pear. 12449

PEAS
Inoculation of pea aphids mosaic virus by the green peach, potato, and foxglove aphids. 12448

Translocation of tritium-labelled gibberellic acid in pea stem segments and potato tuber cylinders. 12826

PEGOMYA HYOSCYAMI
Detection of leaf miners in canned spinach and turnip greens. 12778

PELGER-HUET ANOMALY
Acquired Pelger-Huet anomaly in cattle. 12681

PENICILLINS
Process for the preparation of penicillins. patent 3,372,158. 12880

PENTACHLORO-ALKYLAMINOCYCLOTRIPHOSPHAZATRIENES
Method of destroying undesired plant growth. patent 3,351,456. 12897

PEPTIDES

PEPTIDES
Rate constants of hydrated electron reactions with peptides and proteins. 12851

PERIPLANETA AMERICANA
The release of triglycerides and free fatty acids from the fat body of the cockroach, Periplaneta americana. 12324

Uptake of DDT by the American cockroach central nervous system. 12332

The regeneration of motor axons in an insect. 12342

PERITONITIS
Kontrollierte Behandlungsversuche bei fremdkorperkranken Rindern mit dem Kafig-Magneten; Modell Rinderklinik Hanover (Ccntrolled-treatment experiments with permanent magnets of foreign body diseased cattle (Hanover Cattle clinic model). 12585

PERONOSPORA FARINOSA
Field experiments cn sugar-beet downy mildew (Peronospora farinosa). 12421

PEST CONTROL
The effects on wildlife from Norway rat control using zinc phosphide bait. 12555

Scabies in sheep. interstate movement. 12722

Government Pest Infestation Labcratory (stored products and household pests). annual report, 1966. 12782

PESTICIDE APPLICATION
An experimental spray program for integrated ccntrol of insects affecting sour cherry. 12513

A storage decay of Crownvetch (Coronilla varial "crowns" caused by Fusarium roseum and its ccntrol by fungicide dip treatments. 12776

Agricultural pesticide chemicals handbook. sB951.a5. 12814

Spray atomization, application volume and coverage. 12910

An improved technique for aerial applications of nltra-low-volume materials to experimental plots. 12912

Thiokol swamp spryte egnipped with automatic compressed air spraying units for applying granule and liquid insecticides. 12917

Spraying apparatus and method. patent 3,340,087. 12920

PESTICIDE RESIDUES
Report on chlorinated insecticides and miticides. 12801

Determination of biphenyl in citrus fruits by thin layer chromatography and ultraviolet spectrophotometry. 12802

Spectrophometric determination of dithiocarbamate residues on food crops. 12804

Programmed temperature gas chromatography of pesticides, nsing electron capture and thermionic detectors. 12849

Gas chrcmatographic determination of residues of organophosphorus pesticides with a modified flame ionization detector. 12865

PESTICIDES
Agricnltnral pesticide chemicals handbook. sB951.a5. 12814

Collaborative study of a titrimetric method for the assay of amitrole fcrmulations. 12B48

Pesticidal compounds and their nse. patent 3,371,107. 12859

Method for combatting microorganisms. patent 3,345,257. 12B61

Metal phosphide pesticides. patent 3,372,088. 12B66

Pesticidal ketone-malonate adducts. patent 3,341,406. 12B69

Agricnltural chemical compositions. patent 3,333,942. 12879

Pesticidal compositions of m-isopropylphenyl N-methyl-N-nitrosocarbamate. patent 3,345,256. 12B81

Sulfinyl- and sulfonylpyridine pesticidal compositions and method of use. patent 3,371,011. 12B89

Solvent system for formulating carbamates. patent 3,342,673. 12B90

Halo-meta-isopropylphenyl n-methylcarbamates and pesticidal compositions. patent 3,341,401. 12891

Pesticidal methods and compositions employing bicyclic carbamyloximes. patent 3,332,839. 12892

Improved infrared method for carbaryl (sevin) in commercial formulations. 12B98

Pesticide production processes. tP248 .p47S5. 12906

Pesticide safety education. 12924

The pesticide outlook. 12925

The safe use of modern pesticides. 2. 12926

The '67 pesticide review. 12927

Pesticides, their use and misuse. 1292B

The safe use of pesticides. part 3. 12929

Pesticides and public relations. 12930

Opportunities - hazards. 12931

PETROLEUM
Mosquito control agents derived from petrolem hydrocarbons: laboratory effectiveness. (abstract). 12399

Response of pineapple orange trees to selected petrolenm oil fractions. 12816

PETUNIA
Transmission of exocortis virns of citrus to herbaceons plants. 12471

PHENOLS
Antifungal phenolic acids in apple fruits after infection with Sclerotinia fructigena. 12426

PHENOXY ACYLAMIDES
Herbicidal substituted phenoxy acylamides. patent 3,326,942. 12867

PHENOXYACETAMIDES
Acetyl substituted phenoxyacetamides and their nse as herbicides. patent 3,371,106. 12846

PHEROMONES
Sex pheromones of noctuid moths. xIV. feasibility of behavioral control by disrupting pheromone communication in cabbage loopers. 12374

PHILIPPINES
Seasonal mosquito distribntion and abundance in Central Luzon. (abstract). 12393

The immune response of chickens to Newcastle disease vaccine PP 113. 12565

PHONY DISEASE (PEACHES)
Distribution of phony peach vectors in South Carolina. 12495

PHORATE
Control of the iris borer with systemic insecticides. 1247B

Procedure for nine organothiophosphate pesticide residues on fruits and vegetables, nsing microcoulometric gas chromatography. 12810

PHORMIA REGINA
The formation of lipid-bound carnitine derivatives in the fat body of Phormia regina. 12363

PHOSPHAMIDON
Toxicity of five insecticides to several insect predators. 12358

Field experiments with oil sprays to prevent yellow mosaic virns in irises. 12425

Nomenclature of phosphamidon isomers. 12907

PHOSPHATES
Insecticidal control of regulated populations of black cutworm on corn. 12477

PHOSPHOLIPIDS
Composition and possible significance of fatty acids in the lipid classes in honey bee semen. (chemistry of the drone honey bee reproductive system. 4.). 12314

PHOSPHORODITHIOATES
O,O-dialkyl S-(2-halo-1-(N-phthalimido)ethyl) phosphorodithioates and phosphorothioates as insecticides. patent 3,355,353. 12887

PHOSPHOROTHIOATES
O,O-dialkyl S-(2-halo-1-(N-phthalimido)ethyl) phosphorodithioates and phosphorothioates as insecticides. patent 3,355,353. 12887

PHOSPHORUS
Effect of dietary organic phosphorus on magnesium metabolism in sheep. 12608

Microdetermination of phosphorus. 12813

PHOSPHORUS COMPOUNDS
Control of endoparasites of animals. patent 3,344,021. 12772

PHOTOPERIODISM
Influence of light on diapause in the boll weevil. i. dependence of diapause response on the spectral composition of the light used to extend the photoperiod. 12346

Experimental induction and elimination of adult diapause and autumnal coloration in Chrysopa carnea (Neuroptera). 12360

PHOTOREACTIVATION
Preliminary observations on the in vitro photoreactivation of an insect virus inactivated with ultraviolet radiation. 12328

PRS AM-05606
Zinc deficiency in reproducing gilts fed a diet high in calcium and its effect on tissue zinc and blood serum alkaline phosphatase. 12628

PHYTOSEIIDAE
Five new phytoseid mites from U.a.r., with collection notes on three other species (Acarina: Phytoseiidae). 12298

PHYTOSEIUS
Five new phytoseid mites from U.a.r., with collection notes on three other species (Acarina: Phytoseiidae). 12298

PHYTOTOXICITY
Influence of temperature on phytotoxicity of triazine herbicides to pine seedlings. 12548

PICEA
Hydrocyanic acid and other fumigants for control of larvae of Plemeliella abietina and Megastigmus sp. in imported spruce seed. 12517

PIGEONS
Research note: Incidence of endoparasitism in a group of pigeons in the Chicago area. 12634

Tetrameres sp. (Nematoda: Spiruridae) found in pigeons (Columba livia) in Kansas and Oklahoma. 12758

Chemical control of reproduction in confined populations of pigeons (Columba livia). 12821

PINEAPPLES
Response of pineapple orange trees to selected petroleum oil fractions. 12816

PINUS
Flight and dispersal of the white-pine weevil. 12345

The biology and ecology of the pine root collar weevil, Hylobius radicis Buchanan, in Wisconsin. 12365

PINUS PONDEROSA
Methods of sexing live adult western pine beetles. 12310

PINUS RADIATA
Inoculation of monterey pine with dwarf mistletoe from bishop pine. 12550

PINUS STROBUS
Rate of decay in Pinus strobus following artificial inoculation with Fomes pini. 12462

PIRICULARIA ORYZAE
Spread of rice blast in small fields. 12416

PIROPLASMOSIS
An indirect haemagglutination test for the diagnosis of Babesia argentina infection in cattle. 12593

In vitro agglutination of bovine erythrocytes infected with Babesia argentina. 12594

Equine piroplasmosis: Intraerythrocytic development of Babesia caballi (Nuttall) and Babesia equi (Laveran). 12765

Equine piroplasmosis: Indirect fluorescent antibody test for Babesia caballi. 12770

PISCICIDES
Ethers useful as molluscacides and piscicides. patent 3,349,102. 12850

PISSODES STROBI
Flight and dispersal of the white-pine weevil. 12345

PITUITARY GLAND
Adenohypophyseal insufficiency in two cows with pregnancy toxemia. 12632

PLANT ABNORMALITIES
Relationship between the tarnished plant bug and deformed cotton plants. 12524

PLANT BUDDING
The effect of growth retarding and growth promoting substances on flower bud formation in cultivars of the apple, Malus sylvestris, Mill. 12827

PLANT DISEASE CONTROL
Recent advances in the control of soil fungi. 12474

PLANT DISEASE RESISTANCE
Effect of plant size on resistance to snowmold of winter wheat. 12419

Fungicidal control of Fabraea leafspot of pear. 12422

Antifungal phenolic acids in apple fruits after infection with Sclerotinia fructigena. 12426

Susceptibility of common and durum spring wheats to barley yellow dwarf virus. 12428

Distribution and prevalence of virulence for Victoria oats in Ustilago avenae. 12435

Race population dynamics in Ustilago avenae as related to the persistence of loose smut in oats. 12436

Sources of resistance in the genus Gossypium to several soilborne pathogens. 12442

Interaction of race I and race II of Colletotrichum orbiculare on watermelon. 12445

A new race of Tilletia caries. 12446

Host/parasite interaction in blackspot disease of roses caused by Diplocarpon rosae Wolf. 12458

Purple-top of potatoes in Guatemala. 12459

Recent advances in the control of soil fungi. 12474

PLANT DISEASE TRANSMISSION
Inoculation of pea enation mosaic virus by the green peach, potato, and foxglove aphids. 12448

Viruses mechanically transmitted from pear. 12449

Host range, characteristics, and purification of plum line pattern virus. 12450

Natural spread of stem pitting virus of apple. 12454

PLANT DISEASES

Predominating strains of barley yellow dwarf virus in New York: changes during ten years. 12457

Seed transmission of arabis mosaic virus in lettuce (lactuca sativa). 12469

Transmission of exocortis virus of citrus to herbaceous plants. 12471

Occurrence of a mosaic disease of sweet sorghum in four southern states. 12475

Distribution of phony peach vectors in South Carolina. 12495

PLANT DISEASES
A transmissible red-ring disease on the fruit of delicious apples. 12424

Index to genera of pathogens listed in the "index of Plant Diseases in the United States". 2. 12432

Occurrence of tobacco diseases in Kentucky in 1966. 12465

PLANT EXTRACTS
Juglone (5-hydroxy-1,4-naphthoquinone) from Carya ovata, a deterrent to feeding by Scolytus multistriatus. 12338

PLANT GENETICS
Inheritance of resistance in sweetclover to the sweetclover aphid. 12504

PLANT GRAFTING
Natural spread of stem pitting virus of apple. 12454

Transmission of exocortis virus of citrus to herbaceous plants. 12471

PLANT GROWTH INHIBITORS
The effect of growth retarding and growth promoting substances on flower bud formation in cultivars of the apple, Malus sylvestris, Mill. 12827

Method of tobacco sucker control. patent 3,340,040. 12836

Method of desuckering tobacco plants with azo-, hydrazo-, and azoxy-benzenes. patent 3,361,553. 12838

PLANT INJURIES
Cytospora canker on sweet cherry in New York State: association with winter injury and pathogenicity to other species. 12438

The relationship of arthropod predators to crop damage inflicted by the sugarcane borer. 12511

Influence of temperature on phytotoxicity of triazine herbicides to pine seedlings. 12548

PLANT NEMATODE RESISTANCE
The population genetics of the potato cyst-nematode, Heterodera rostochiensis: Mathematical moiels to simulate the effects of growing eelworm-resistant potatoes bred from Solanum tuberosum ssp andigena. 12538

PLANT NEMATODES
The suitability of a nematode (Ed-136) for the control of some pasture insects. 12372

Euphorbia lagascae, a new host of Sclerotium rolfsii and a root-knot nematode, Meloidogyne hapla. 12470

Method of killing nematodes with bis(1,2-dichloroethyl) sulfone, patent 3,362,870. 12531

The influence of certain environmental factors on the respiration of some plant-parasitic nematodes. 12532

Soybean cyst nematode found in Louisiana. 12533

Suitability of Kobe lespedeza for reproduction of isolates of the soybean cyst nematode from nine locations. 12534

Factors influencing the population fluctuation of Pratylenchus penetrans in soils of high organic content. i. effect of soil fumigants and different crop plants. 12535

Nature of the nematode problem in Louisiana rice fields. 12536

Reduction of root knot of tomatoes with crop residue amendments in field experiments. 12537

Method for controlling microorganisms and nematodes. patent 3,361,621. 12539

Pratylenchus penetrans, its interaction with Verticillium alho-atrum in the Verticillium wilt of potatoes and its attraction by various chemicals. 12540

Observations on the effect of sawdust on incidence of root knot and on yield of okra and tomatoes in nematode-infested soil. 12541

Citrus nematode found widespread in Florida. 12542

Effects of host species on population changes of Pratylenchus penetrans (Cobb, 1917) Filipjev and Schnurmans Stekhoven, 1941. 12543

Halogenated aromatic pesticidal compositions for controlling fungi, bacteria and nematodes. patent 3,331,735. 12845

PLANT PEST RESISTANCE
Juglone (5-hydroxy-1,4-naphthoquinone) from Carya ovata, a deterrent to feeding by Scolytus multistriatns. 12338

Leaf disk method of testing alfalfa plants for resistance to feeding by adult alfalfa weevils. 12479

Behavior of the spotted alfalfa aphid,Therioaphis maculata (Buckton), on resistant and susceptible alfalfas. 12497

2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one (dimboa), an active agent in the resistance of maize to the European corn borer. 12498

Inheritance of resistance in sweetclover to the sweetclover aphid. 12504

Sources of alfalfa seed chalcid resistance in alfalfa. 12512

PLANT PROTECTION
Strategy of integrated pest control. 12515

PLANT REGULATORS
Synthesis of indoleacetic acid by cell-free systems from Pseudomonas solanacearum and Nicotiana tabacum. 12451

Composition and method for stimulating seed germination and plant growths. patent 3,331,678. 12825

The effect of growth retarding and growth promoting substances on flower bud formation in cultivars of the apple, Malus sylvestris, Mill. 12827

Method of stimulating plant growth. patent 3,361,555. 12829

Method of promoting maturation of cotton plants. patent 3,352,660. 12831

Effect of beta-indolylacetic acid on the growth and the auxin catabolism of Lactobacillus bulgaricus. 12832

Bromopyridazones and process for regulating plant growth. patent 3,323,892. 12833

Method for regulating growth of plants. patent 3,326,659. 12834

Method of regulating growth of plants. patent 3,326,662. 12835

Pyridazone derivatives and their use as plant growth regulants. patent 3,336,130. 12863

PLANT RESIDUES
Reduction of root knot of tomatoes with crop residue amendments in field experiments. 12537

PLANT TAXONOMY
Key for determination of the most common, species of the genus Alternaria (Nees)Wiltsh. Emend. Joly. 12437

PLANT TEMPERATURE
Sources of resistance in the genus Gossypium to several soilborne pathogens. 12442

PLANT TRANSLOCATION
Translocation of tritium-labelled gibberellic acid in pea stem segments and potato tnber cylinders. 12826

PLANT TRANSPIRATION
The effect of two herbicides, bromoxynil and dicamba, on tbe transpiration of tartary buckwbeat and barley. 12546

PLANTS
Skeleton weed a serious tbreat to California agriculture. 12547

PLASMODIOM GALLINACEUM
Detection of erytbrocyte bound globulin in Plasmodium gallinaceum infected cbickens. 12617

PLASTICS
Insect abundances on tomatoes and squash mulched witb aluminum and plastic sbeetings. 12529

PLATELETS
Effect of incubation temperatnre and serum content in agar overlay on plaque prodnction by foot-and-moutb disease virus. 12579

PLATYBELMINTBES
Method for controlling insects and worms with organcpbospborns cyclic sulfone compositions. patent 3,341,407. 12760

PLEBELIELLA ABIETINA
Hydrocyanic acid and otber fumigants for control of larvae of Plemeliella abietina and Megastigmus sp. in imported sprnce seed. 12517

PLEUROPBEUMONIA
Contagious bovine pleuropnenmonia and the problems associated witb its control. 12652

POISONING
Vertebral biopsies in the diagnosis of bovine fluoride toxicosis. 12556

Swine tcxicosis associated with fumigated grain. 12571

Cbronic mercurial poisoning in swine. a case report of an outbreak with some epidemiolcgical characteristics of bog cholera. 12637

Astragalns mollissimus (Locoweed) toxicosis of horses in western Kansas. 1267B

Cbanges in blood serum transaminase associated witb lnpine and larkspur poisoning in cattle. 12705

Tbe effect cf lccc plant on libido and fertility in rams. 12706

Observatiens cn crooked calf disease. 12707

Lnpine, a canse cf crooked calf disease. 1270B

Etbylene glycol poisoning in dogs and cats. 12819

Diagnosis and treatment of adverse reactions in cattle treated for grnbs with a systemic insecticide. 12822

Hemic concentrations of oximes given intravenously to cattle. 12824

POLYALKENES
Viscous agneous preparations. patent 3,341,319. 128B3

POLYHEDROSES
Control of the cattage looper and ccrn earworm with nuclear polyhedrosis viruses. 12530

POLYNITROBAIO COMPCUNDS
Polynitro balo componnds usefnl as antibiotics, fnngicides and explosives. patent 3,359,334. 12B71

POLYVINYLPYRROLIDONE
Treatment of arteriosclerotic diseases. patent 3,337,406. 12597

PONDS
Activity and seguence of mosgnito predators in woodland pools in Ontario. 12397

POPULATION
Mating behavior and population dynamics of the boll weevil as related to the sterile-male-tecbnigue of insect control. 12339

POPULATION STATISTICS
Factors influencing the population fluctuation of Pratylenchus penetrans in soils of bigh organic content. i. effect of soil fumigants and different crop plants. 12535

POPULUS
A report on tbe distribution and biology of tree bole mosquitoes in the western United States. 12402

PORCINE ENTEROVIRUSES
Further studies on porcine enteroviruses isolated at Cambridge. i. infections in SPF pigs and the preparation of monospecific antisera. iI. serological grouping. 12557

PORTHETRIA DISPAR
Silking bebavior of tbe gypsy moth, Porthetria dispar. 12357

POTASSIUM
Active transport of potassium and oxygen consumption in tbe isolated midgut of Hyalopbora cecropia. 12347

Dietary sodium and potassium in infectious broncbitis of cbickens. 12592

Effect of bovine coccidiosis on blood serum sodium and potassium levels in calves. 12614

Potassium and its role in parturient paresis. 12636

POTATOES
Purple-top of potatoes in Guatemala. 12459

Leucinodes orbonalis Guen. (Lepidopterai Pyralidae) as a serions pest of potato plants in Mysore state. 12509

1967 insecticide recommendations; insects of Irish potatoes. 12523

Factors influencing the population fluctuation of Pratylenchus penetrans in soils of higb organic content. i. effect of soil fumigants and different crop plants. 12535

Tbe population genetics of tbe potato cyst-nematode, Heteroda rostochiensis: Matbematical moieis to simulate tbe effects of growing eelworm-resistant potatoes bred from Solanum tuberosum ssp andigena. 12538

Pratylencbus penetrans, its interaction with Verticillium albo-atrum in the Verticillium wilt of potatoes and its attraction by various chemicals. 12540

Effects of bost species on popnlation changes of Pratylenchus penetrans (Cobb, 1917) Filipjev and schunrmans Stekhoven, 1941. 12543

Method for killing potato vines witb ammonia. patent 3,331,675. 12552

Translocation of tritium-labelled gibberellic acid in pea stem segments and potato tnber cylinders. 12B26

Changes in composition of potato tubers following applications of defoliants. 12837

POULTRY
Infectious broncbitis virus interference with Newcastle disease virus in monolayers of chicken kidney cells. 12564

Mycoplasma gallisepticum in a commercial laryngotracheitis vaccine. 12567

Studies on tbe transmission of the infectious bursal agent (IBA) of cbickens. 12568

Mycoplasmal salpingitis of cbickens and turkeys. 12604

A rapid screening test for detecting Salmonella typhimurium infection in poultry. 12609

Modified laryngotracheitis vaccine. patent 3,331,736. 12618

Immunity following aerosol exposnre to higb-embryo-passage avian infectious bronchitis virus. 12629

Avian leukosis treatment with inactivated rous sarcoma

POULTRY HOUSES
virus. patent 3,326,767. 12631

Research note: Dietary influence of a cod liver oil fraction on avian lymphocytoma. 12638

Replication of infectious laryngotracheitis virus in chicken kidney cell culture. 12662

An outbreak of listeriosis in chickens. 12673

Post-mortem serological diagnosis of Newcastle disease. 12690

Food additives permitted in the feed and drinking water of animals or for the treatment of food-producing animals. Vexite. 12724

Immunity response from an inactivated infectious bronchitis vaccine. 12734

The action of Mycoplasma gallisepticum upon chicken, rabbit, and cow erythrocytes. 12736

Animal sentinels in a statewide arthropod-borne encephalitis surveillance program. 12749

Compositions and methods for the treatment and prevention of coccidiosis in poultry. patent 3,337,401. 12768

Response of four breeds of chickens and one breed of turkeys to experimental heterakis and histomonas infections. 12769

Dimethoate residues in eggs and tissues of laying hens. 12811

POULTRY HOUSES
Fluorescent dyes for marking and recovering fowl ticks in poultry houses treated with insecticides. 12746

1967 insecticide recommendations; control insects in and around poultry houses. 12752

POWDERY MILDEW (PLANTS)
Method for control of powdery mildew. patent 3,323,986. 12468

PRATYLENCHUS PENETRANS
Factors influencing the population fluctuation of Pratylenchus penetrans in soils of high organic content. i. effect of soil fumigants and different crop plants. 12535

Pratylenchus penetrans, its interaction with Verticillium alho-atrum in the Verticillium wilt of potatoes and its attraction by various chemicals. 12540

Effects of host species on population changes of Pratylenchus penetrans (Cobb, 1917) Filipjev and schuurmans Stekhoven, 1941. 12543

PRECIPITIN TEST
Swine abscesses caused by Lancefield's group E streptococci. iII. application of a precipitin test in selected groups of market pigs. 12703

PREDACEOUS INSECTS
The effects of different aphid foods on Adalia bipunctata L and Coccinella 7-punctata L. 12312

Biological observations on Coleomegilla maculata and its role as a predator of the fall webworm. 12380

Laboratory evaluation of two aleocharine parasites of the face fly. 12382

Activity and segnence of mosquito predators in woodland pools in Ontario. 12397

The relationship of arthropod predators to crop damage inflicted by the sugarcane borer. 12511

PREGNANCY
Effects of attenuated hog cholera virus in pregnant swine at various stages of gestation. 12591

PREGNANCY DISEASE
Adenohypophyseal insufficiency in two cows with pregnancy toxemia. 12632

PRISTIPHORA ERICHSONII
Heat tolerance of last-instar larvae of the larch sawfly, Pristiphora erichsonii (Hymenoptera: Tenthredinidae). 12348

Determination of premature larval drop and other causes of larch sawfly mortality. 12352

PRODENIA LITURA
Studies on antifeeding properties of triphenyltin acetate against the tobacco caterpillar, Prodenia litura F. 12494

PROGRAMMING (COMPUTERS)
Statistical applications to repellency assay. (abstract). 12820

PROTEINS
Changes in the nitrogen balance and serum proteins during an attack of distemper and coccidiosis in the dog. 12755

Rate constants of hydrated electron reactions with peptides and proteins. 12851

PRUNES
Cytospora canker on sweet cherry in New York State: association with winter injury and pathogenicity to other species. 12438

PRUNING
Method of tobacco sucker control. patent 3,340,040. 12836

PSEUDOMONAS
A method for studying microbial penetration through the outer structures of the avian egg. 12794

PSEUDOMONAS AERUGINOSA
The experimental use of bull semen contaminated with Pseudomonas aeruginosa organisms. 12619

Experimental Pseudomonas aeruginosa mastitis in cattle. 12701

PSEUDOMONAS SOLANACEARUM
Synthesis of indoleacetic acid by cell-free systems from Pseudomonas solanacearum and Nicotiana tabacum. 12451

PSEUDOPLUSIA INCLUDENS
Biology of the cabbage looper on tobacco in North Carolina. 12484

Pseudoplusia includens: a pest of floricultural crops in southern California. 12507

PSEUDORABIES
Investigations on immunogenetics of ethanol-inactivated vaccines against Aujeszky's disease. 12642

PSEUDOTSUGA MENZIESII
Sampling mites on douglas-fir foliage with the Henderson-McBurnie machine. 12913

PSYLLA UNCATOIDES
Bark vs foliage applications of insecticides for control of Psylla uncatoides on Acacia. 12499

PUBLIC HEALTH
Pesticide safety education. 12924

Pesticides and public relations. 12930

PUBLIC RELATIONS
Pesticides and public relations. 12930

PUCCINIA
Rusts on Indian forest trees. 12415

Some uredospore characteristics of importance in experimental epidemiology. 12418

PUCCINIA ZOYSIAE
Rust on Zoysia in Arkansas. 12467

PUERTO RICO
Dengue fever in a Puerto Rican community. 12401

PUPAE
Strain-gauge transducer studies on intratracheal pressure and pupal length during discontinuous respiration in diapausing silkworm pupae. 12317

Some distinctions between the larvae and pupae of the

Empididae and Dolichopodidae (Diptera). 12331

Effect of aeration on gamma irradiation of house fly pupae. 12375

PUPAL CASES
Calcification, tanning, and the role of ecdyson in the formation of the puparium of the facefly, Musca autumnalis. 12337

PURPURA
The development of petechial haemorrhages on the under-surface of the tongue of the horse and its relation to infection with the virus of equine infectious anaemia. 12713

PYELONEPHRITIS
Spontaneous pyelonephritis in dogs. 12683

PYRAZOLES
Method of regulating growth of plants. patent 3,326,662. 12835

PYRETHRUM
Some insecticidal trials for the protection of til seeds in storage. 12785

PYRIDAZONES
Pyridazones and method for controlling vegetation. patent 3,326,660. 12551

Pyridazone derivatives and their use as plant growth regulants. patent 3,336,130. 12863

PYRRHOCORIS APTERUS
Abnormalities of growth and metamorphosis in some pyrrhocorid bugs. the paper factor. 12319

PYTHIUM
Methyl arsine oxide method of controlling soil-borne pythium fungi. patent 3,338,780. 12461

PYTHIUM ULTIMUM
Sources of resistance in the genus Gossypium to several soilborne pathogens. 12442

QUAIL
Case report: Isolation of Mycoplasma gallisepticum from Bobwhite quail (Colinus virginianus). 12655

QUATERNARY SALTS
Herbicidal composition and method employing 4,4'-bipyridylium quaternary salts. patent 3,340,041. 12885

QUERCUS
Outbreaks and new records: United States. oriental wood borer, a new record. 12789

QUERCUS RUBRA
Attractiveness to Nitidulidae (Coleoptera) of natural attrahents of trees and fungus origin supplemented with vinegar and water in an Appalachian hardwood forest. 12366

RABBITS
Studies on the pathogenesis of muscle necrosis in plasmodid intoxication. 12691

Active immunity against Trichostrongylus axei in sheep and rabbits. 12710

The action of Mycoplasma gallisepticum upon chicken, rabbit, and cow erythrocytes. 12736

RABIES VIRUS
Transmission experiments with bat rabies isolates: Responses of certain carnivores and rodents to rabies viruses from four species of bats. 12589

RADIATION
Rate constants of hydrated electron reactions with peptides and proteins. 12851

RADIOACTIVE TRACERS
Study of the dispersion and flight range of Anopheles sergenti Theo in Siwa Oasis using radioactive isotopes as markers. 12295

An ecological study of Chaoborus. 12302

A technique for labeling Ceratocystis ulmi with radiocarbon. 12456

Incorporation of radioactive amino acids by Coxiella burnetii and its host, the chick embryo. 12657

e-59 and CR-51 studies of the effect of partial-body X-irradiation on Erythropoiesis in beagles. 12685

Translocation of tritium-labelled gibberellic acid in pea stem segments and potato tuber cylinders. 12826

RADIOACTIVITY
Factors affecting the toxicity of diazinon Musca domestica L. 12343

RAINFALL
An unusual occurrence of eye rot of apple in California due to Nectria galligena. 12443

Field weathering of toxaphene and chlordane. 12807

RAMS
The effect of loco plant on libido and fertility in rams. 12706

RATS
Natural occurrence of Schistosoma spindale in Bandicota bengalensis in Bombay together with a note on their possible role in the dissemination of schistosomiasis spindale in domestic ruminants. 12750

RATTUS NORVEGICUS
The effects on wildlife from Norway rat control using zinc phosphide bait. 12555

RED CLOVER
Effect of cutting height on development of root rot in clover. 12447

1967 insecticide recommendations; forage crops insects. 12518

RED WATER DISEASE
Isolation and identification of Clostridium hemolyticum in cattle in Florida. 12663

REINDEER
Treatment experiments with systemic insecticides against the larvae of the reindeer gruh fly (Oedemagena tarandi L) and the reindeer nostril fly (Cephenomyia trompe L). 12751

REPRODUCTION
Reproduction in the fleshfly, Sarcophaga bullata, and its endocrine control. 12306

Composition and possible significance of fatty acids in the lipid classes in honey bee semen. (chemistry of the drone honey bee reproductive system. 4.). 12314

Experimental induction and elimination of adult diapause and autumnal coloration in Chrysopa carnea (Neuroptera). 12360

Effects of low-level ultra-violet irradiation on reproduction of Aedes aegypti (L.) (preliminary report) (abstract). 12407

Successive germination of bollworms on cotton in field cages. 12526

REPRODUCTIVE ORGANS
The action of the male genitalia during the copulation of the hen flea, Ceratophyllus gallinae (Schrank). 12349

RESERVOIRS
Mosquito control on Smith Mountain reservoir by pumped storage water level management. 12340

RESPIRATION
The influence of certain environmental factors on the respiration of some plant-parasitic nematodes. 12532

RESPIRATORY DISEASES
The equine respiratory disease syndrome in the Pacific Northwest. 12644

RESPIRATORY SYSTEM
Modified laryngotracheitis vaccine. patent 3,331,736. 12618

RETINA

RETINA
Heredity of retinal dysplasia in Bedlington Terriers. 12697

REVIEWS
Die Listeriose des Rindes; Schrifttumsubersich. (Listericsis of cattle; literature snrvey). 12576

RHAGOLETIS POMONELLA
Apple maggot adult dispersion in a New Brunswick apple orchard. 12506

RHIZOCTONIA SOLANI
Effects of planting depth and asphalt mulch on Rhizoctonia root and hypocotyl rot of snapbean. 12441

Sources of resistance in the genus Gossypium to several soilborne pathogens. 12442

RHIZOPUS STOLONIFER
Rhizopus rot of chicory in Punjab, India. 12431

RHODNIUS PROLIXUS
Effects of repeated haemolymph withdrawals and of ligaturing the head on differential haemocyte counts of Rhodnius prolixus Stal. 12353

Toxicity of DDT, dieldrin, malathion and fenthion to Rhodnius prolixus in the laboratory. 12817

RHODODENDRON
Rusts on Indian forest trees. 12415

RHOPALOSIPHUM MAIDIS
Predominating strains of barley yellow dwarf virus in New York: changes during ten years. 12457

Occurrence of a mosaic disease of sweet sorghum in four southern states. 12475

RHOPALOSIPHUM PADI
Predominating strains of barley yellow dwarf virus in New York: changes during ten years. 12457

RIBONUCLEIC ACID
An autoradiographic study of RNA synthesis in isolated salivary glands of Drosophila hydei. 12309

RICE
Spread of rice blast in small fields. 12416

Eradication of the seedborne inoculum of Xanthomonas oryzae by hot water treatment of paddy seeds. 12463

Strategy of integrated pest control. 12515

Nature of the nematode problem in Louisiana rice fields. 12536

RINDERPEST
The use of tissue culture rinderpest vaccine for Egyptian cattle and water buffaloes. 12709

RODENTICIDES
The effects on wildlife from Norway rat control using zinc phosphide bait. 12555

RODENTS
Transmission experiments with bat rabies isolates: Responses of certain carnivores and rodents to rabies viruses from four species of bats. 12589

Cytomegalic inclusion disease in sand rats (Psammomys obesus). histopathologic. 12633

Government Pest Infestation Laboratory (stored products and household pests). annual report, 1966. 12782

ROTENEL
WARF anti-resistant: DDT selection and house fly cross-resistance. 12384

Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

ROOT KNOT (OKRA)
Observations on the effect of sawdust on incidence of root knot and on yield of okra and tomatoes in nematode-infested soil. 12541

ROOT KNOT (TOMATOES)
Observations on the effect of sawdust on incidence of root knot and on yield of okra and tomatoes in nematode-infested soil. 12541

ROOT ROT (BEANS)
Effects of planting depth and asphalt mulch on Rhizoctonia root and hypocotyl rot of snapbean. 12441

ROOT ROT (CLOVER)
Effect of cutting height on development of root rot in clover. 12447

ROSA
Host/parasite interaction in blackspot disease of roses caused by Diplocarpon rosae Wolf. 12458

ROT (APPLES)
An unusual occurrence of eye rot of apple in California due to Nectria galligena. 12443

ROT (BEANS)
Effects of planting depth and asphalt mulch on Rhizoctonia root and hypocotyl rot of snapbean. 12441

ROT (CHICORY)
Rhizopus rot of chicory in Punjab, India. 12431

ROUS SARCOMA VIRUS
Avian leukosis treatment with inactivated rous sarcoma virus. patent 3,326,767. 12631

RUMINANTS
Natural occurrence of Schistosoma spindale in Bandicota bengalensis in Bombay together with a note on their possible role in the dissemination of schistosomiasis spindale in domestic ruminants. 12750

RUST (GRASSES)
Rust on Zoysia in Arkansas. 12467

RUST (TREES)
Rusts on Indian forest trees. 12415

SACBROOD
The incidence of virus diseases in the honey bee. 12311

SALES
The '67 pesticide review. 12927

SALINE SOILS
Bionomics and zoogeography of tiger beetles of saline habitats in the central United States (Coleoptera: Cicindelidae). 12307

SALIVARY GLANDS (INSECTS)
An autoradiographic study of RNA synthesis in isolated salivary glands of Drosophila hydei. 12309

SALIX
A report on the distribution and biology of tree hole mosquitoes in the western United States. 12402

SALMONELLA
Salmonella. 12792

SALMONELLA BACTERINS
Immunologic response of the equine to Salmonella typhimurium bacterin. 12625

SALMONELLA TYPHIMURIUM
A rapid screening test for detecting Salmonella typhimurium infection in poultry. 12609

SALPINGITIS
Mycoplasmal salpingitis of chickens and turkeys. 12604

SAMPLING (STATISTICS)
Douglas-fir tussock moth (Hemerocampa pseudotsugata) egg-mass distribution on white fir in northeastern California. 12359

Spatial arrangement of the eggs of Hylemya brassicae (Bouche), and a sequential sampling plan for use in control of the species. 12487

Note on a laboratory sampling procedure for determining aphids in hops. 12777

A trap for the detection and recovery of insects in stored

grain. 12784

Sampling mites on douglas-fir foliage with the Henderson-McBurnie machine. 12913

SANITATION CONTROL (INSECTS)
1967 insecticide recommendations; control insects in and around poultry houses. 12752

SARCOMA
Metastatic mammary tumors in the dog. i. clinico-pathological studies on mammary carcinomai. Metastasierte Mammatumoren beim Hund. i. Klinisch-pathologische Untersuchungen uber Mammakarzinome. 12679

Metastatic mammary tumours in the dog. ii. clinico-pathological studies on mammary sarcoma and carcino-sarcoma). Metastasierte Mammatumoren beim Hund. ii. Klinisch-pathologische Untersuchungen uber Sarkome und Karzinosarkome der Milchdruse. 12680

SARCOPHAGA BULLATA
Reproduction in the fleshfly, Sarcophaga bullata, and its endocrine control. 12306

SAWDUST
Observations on the effect of sawdust on incidence of root knot and on yield of okra and tomatoes in nematode-infested soil. 12541

SAWMILLS
Onthreaks and new records: United States. oriental wood borer, a new record. 12789

SCAB (SORGHUM)
Fusarium scab of sorghum in Nigeria. 12427

SCABIES
Scabies in sheep. interstate movement. 12722

SCHISTOCERCA GREGARIA
Structure and function of the extraneural sheath in insects. 12297

Extracellular potentials in the locust eye and optic lobe. 12325

SCHISTOSOMIASIS
Natural occurrence of Schistosoma spindale in Bandicota bengalensis in Bombay together with a note on their possible role in the dissemination of schistosomiasis spindale in domestic ruminants. 12750

SCHIZAPHIS GRAMINUM
Predominating strains of barley yellow dwarf virus in New York: changes during ten years. 12457

SCLEROTINIA FRUCTIGENA
Antifungal phenolic acids in apple fruits after infection with Sclerotinia fructigena. 12426

SCLEROTIUM CEPIVORUM
Germination of sclerotia of Sclerotium cepivorum Berk under aseptic conditions. 12423

SCLEROTIUM ROLFSII
Euphorbia lagascae, a new host of Sclerotium rolfsii and a root-knot nematode, Meloidogyne hapla. 12470

Sclerotium rolfsii and its control on tomato and peanut. 12473

SCOLYTIDAE
Factors influencing the response of Ips confusus (Coleoptera: Scolytidae) to male attractant. 12316

SCOLYTUS MULTISTRIATUS
Juglone (5-hydroxy-1,4-naphthoquinone) from Carya ovata, a deterrent to feeding by Scolytus multistriatus. 12338

SECRETION
Rates of hydrocortisone and corticosterone secretion in calves. 12731

SEED GERMINATION
Germination of sclerotia of Sclerotium cepivorum Berk under aseptic conditions. 12423

Some insecticidal trials for the protection of til seeds in storage. 12785

Composition and method for stimulating seed germination and plant growths. patent 3,331,678. 12825

SEED PLANTING
Effects of planting depth and asphalt mulch on Rhizoctonia root and hypocotyl rot of snapbean. 12441

SEED TREATMENT
Eradication of the seedborne inoculum of Xanthomonas oryzae by hot water treatment of paddy seeds. 12463

Method of disinfecting seeds. patent 3,366,538. 12472

Hydrocyanic acid and other fumigants for control of larvae of Pleneliella abietina and Megastigmus sp. in imported spruce seed. 12517

SEED-BORNE PLANT DISEASES
A strain of Pseudomonas lapsa isolated from corn seeds causing bacterial stalk rot in India. 12453

Eradication of the seedborne inoculum of Xanthomonas oryzae by hot water treatment of paddy seeds. 12463

Seed transmission of arabis mosaic virus in lettuce (Lactuca sativa). 12469

SEEDLINGS
2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one (dimboa), an active agent in the resistance of maize to the European corn borer. 12498

Influence of temperature on phytotoxicity of triazine herbicides to pine seedlings. 12548

SEEDS
Method of disinfecting seeds. patent 3,366,538. 12472

Neem seed as a protectant against bruchid Callosobruchus maculatus (Fabricius) infesting some leguminous seeds. 12783

SEMEN
Composition and possible significance of fatty acids in the lipid classes in honey bee semen. (Chemistry of the drone honey bee reproductive system. 4.). 12314

The experimental use of bull semen contaminated with Pseudomonas aeruginosa organisms. 12619

SENSE ORGANS
Electrophysiological studies of olfactory receptor cells in the antennae of female mosquitoes (Aedes aegypti L.). 12355

Sex pheromones of noctuid moths. xIV. feasibility of behavioral control by disrupting pheromone communication in cabbage loopers. 12374

SERICESTHIS
The suitability of a nematode (Dd-136) for the control of some pasture insects. 12372

SEROLOGICAL TESTS
Further studies on porcine enterovirnses isolated at Cambridge. i. infections in SPF pigs and the preparation of monospecific antisera. ii. serological grouping. 12557

Bluetongue of sheep and cattle: Past, present, and future. 12575

A preliminary evaluation of serologic tests for equine infectious anemia. 12601

A rapid screening test for detecting Salmonella typhimurium infection in poultry. 12609

Studies on bluetongue. vI. animal transmission studies. 12622

Utilization of the card test in brucellosis eradication. 12675

Post-mortem serological diagnosis of Newcastle disease. 12690

SERUM
Effect of incubation temperature and serum content in agar overlay on plague production by foot-and-mouth disease virus. 12579

SESAME
The presence of antibodies in the ovine serum inhibiting the hemagglutination by myxovirus parainfluenza. 12612

SESAME
Some insecticidal trials for the protection of til seeds in storage. 12785

SESAMEX
Joint action of SKF 525-A and sesamex insecticides in susceptible and resistant house flies. 12335

SEWAGE
Field developmental studies on Culex pipiens quinquefasciatus reared in natural, dairy barn wash and sewage effluent waters. (abstract). 12408

SEX ATTRACTANTS
Methods of sexing live adult western pine beetles. 12310

Sex pheromones of noctuid moths. XIV. feasibility of behavioral control by disrupting pheromone communication in cabbage loopers. 12374

Insect sex attractants. VIII. structure-activity relationships in sex attractant for male cabbage loopers. 12492

SEX BEHAVIOR
Methods of sexing live adult western pine beetles. 12310

Mating behavior and population dynamics of the boll weevil as related to the sterile-male-technique of insect control. 12339

The action of the male genitalia during the copulation of the ben flea, Ceratophyllus gallinae (Schrank). 12349

SHEEP
Ecologic aspects of listeriosis. 12570

Studies on bluetongue. III. comparison of two complement-fixation methods. 12574

Blnetongue of sheep and cattle: Past, present, and future. 12575

Cardiovascular system in naturally occurring copper deficiency and swayback in sheep. 12590

Effect of dietary organic phosphorus on magnesium metabolism in sheep. 12608

The presence of antibodies in the ovine serum inhibiting the hemagglutination by myxovirus parainfluenza. 12612

Transmission of attenuated and virulent bluetongue virus with Culicoides variipennis infected orally via sheep. 12616

Studies on bluetongue. VI. animal transmission studies. 12622

Influence of dietary magnesium on metabolism of calcium and magnesium in sheep. 12627

Investigations on immunogenetics of ethanol-inactivated vaccines against Anjeszky's disease. 12642

Epizootiology of brucellosis in a flock of sheep. 12653

Bluetongue virus in sheep. intensification of clinical response by previous oral administration. 12654

A mycoplasma associated with ovine orchitis. 12664

Local immunity in the lactating mammary gland following the infusion of staphylococcal toxoids. 12682

Dermatophilus infection. 12693

Studies on bluetongue. V. detection of the virus in infected materials by immunofluorescence. 12698

Active immunity against Trichostrongylus axei in sheep and rabbits. 12710

Antibody and cellular response in lambs immunized against Trichostrongylus axei. 12711

Scabies in sheep. interstate movement. 12722

A survey of sheep bot fly larva infestations in Kentucky. 12742

Sheep ectoparasite control. i. insecticides and application methods for keds and biting lice. 12743

Observations on Muellerius capillaris (Muller, 1889) Cameron, 1927. iII. experimental infection of sheep. 12756

The vectors of Stilesia globipunctata (Rivolta, 1874) of sheep. 12759

Amprolium for control of experimental coccidiosis in lambs. 12762

Determination of species of larvae of intestinal nematodes in sheep. 12766

SHEEP-DIP
An improved portable sheep dipping vat. 12922

SHEEPPOX VIRUS
Agglutination test for sheeppox virus using antiglobulin. 12561

Study of sheeppox virus synthesis by fluorescent antibody technique. 12730

SHELL SD-8447
Low-volume dusts for control of the cotton bollworm. 12502

SILK
Silking behavior of the gypsy moth, Porthetria dispar. 12357

SIMAZINE
Effect of different soil tillage methods on residual after-effect of simazine . vliyanie razlichnykh sposobov osnovnoi obrabotki pochvy na posledeistvie simazina. 12806

SIMULIUM NEAVEI
A simple laboratory method for testing the susceptibility of larvae of Simulium neavei complex to insecticides. 12823

SKF 525-A
Joint action of SKF 525-A and sesamex insecticides in susceptible and resistant house flies. 12335

SLAUGHTERHOUSES
Untersuchungen uber das Vorkommen von Augenwurmern, Thelazien, beim Rind im Einzugshereich des Schlachthofes Hanover. (Investigations on the occurrences of eyeworms (Thelazia spp) in cattle in the catchment area of Hanover slaughterhouse). 12754

SNOW MOLD (WHEAT)
Effect of plant size on resistance to snowmold of winter wheat. 12419

SODIUM
Dietary sodium and potassium in infections bronchitis of chickens. 12592

Effect of bovine coccidiosis on blood serum sodium and potassium levels in calves. 12614

SODIUM ARSENITE
Changes in composition of potato tubers following applications of defoliants. 12837

SODIUM CHLORIDE
Comparative oviposition selection preference by Aedes dorsalis and Aedes nigromaculis to three inorganic salts in the laboratory. (abstract). 12405

Effect of detergents and inorganic salts in water on the persistence and movement of insecticides in soils. 12797

SODIUM HYPOCHLORITE
Improved laboratory methods for rearing the citrus red mite. 12481

SOIL FAUNA
Pesticides and the soil fauna; effects of Aldrin and DDT in an arable field. 12803

SOIL FUMIGATION
Factors influencing the population fluctuation of Pratylenchus penetrans in soils of high organic content. i. effect of soil fumigants and different crop plants. 12535

SOIL FONGI
Method of controlling soil fungi with bis(chloromethyl)disulfide. patent 3,360,430. 12429

Methyl arsine oxide method of controlling soil-borne pythium fungi. patent 3,338,780. 12461

SOIL SANITATION
An experimental spray program for integrated control of insects affecting sour cherry. 12513

Preliminary evaluation of soil insecticide for sugar-beet root maggot control. 12514

SOIL-BORNE PLANT DISEASES
Sources of resistance in the genus Gossypium to several soilborne pathogens. 12442

Recent advances in the control of soil fungi. 12474

SOILS
Toxicity of insecticides to house crickets and bioassay of treated soils in the laboratory. 12318

Comparisons of soil and foliar applications of acaricides for control of the two-spotted spider mite on strawberries in southern California. 12525

Tolerance of flax to dicamba applied to the foliage and to the soil. 12549

Ultrasonic extraction of insecticides. i. comparison of extraction methods and solvent systems over three time intervals. 12796

Effect of detergents and inorganic salts in water on the persistence and movement of insecticides in soils. 12797

Pesticides and the soil fauna; effects of Aldrin and DDT in an arable field. 12803

Effect of different soil tillage methods on residual after-effect of simazine . vliyanie razlichnykh sposobov osnovnoi obrabotki pochvy na posledeistvie simazina. 12806

Acetyl substituted phenoxyacetamides and their use as herbicides. patent 3,371,106. 12846

Bioassay of field treated soils to determine bioactivity and movement of insecticides. 12854

SOLANACEAE
Transmission of exocortis virus of citrus to herbaceous plants. 12471

SOLVENTS
Solvent system for formulating carbamates. patent 3,342,673. 12890

SORGHO
Occurrence of a mosaic disease of sweet sorghum in four southern states. 12475

SORGHUM
Fusarium scab of sorghum in Nigeria. 12427

Effect of host plants on the survival, development and behaviour of Chilo zonellus (Swinhoe) under laboratory conditions. 12496

SOUR CHERRIES
Cytospora canker on sweet cherry in New York State: association with winter injury and pathogenicity to other species. 12438

An experimental spray program for integrated control of insects affecting sour cherry. 12513

SOUTHERN BLIGHT (TOMATOES)
Sclerotium rolfsii and its control on tomato and peanut. 12473

SOYBEANS
Soybean cyst nematode found in Louisiana. 12533

A contribution to the study of control of weeds in soybean stands. 12554

SPECTROPHOTOMETRY
Determination of biphenyl in citrus fruits by thin layer chromatography and ultraviolet spectrophotometry. 12802

Spectrophometric determination of dithiocarbamate residues on food crops. 12804

Microdetermination of phosphorus. 12813

SPHOUROMANTIS
Structure and function of the extraneural sheath in insects. 12297

SPINACH
Detection of leaf miners in canned spinach and turnip greens. 12778

SPODOPTERA FROGIPERDA
Insect preference for peanut varieties. 12500

SPORE GERMINATION
Some uredospore characteristics of importance in experimental epidemiology. 12418

SPOTTED WILT (LETTUCE)
Tomato spotted wilt virus in lettuce crop in Argentina. 12452

SPRAYING
Field experiments with oil sprays to prevent yellow mosaic virus in irises. 12425

Low-volume dusts for control of the cotton bollworm. 12502

An experimental spray program for integrated control of insects affecting sour cherry. 12513

Opportunities - hazards. 12931

SPRAYING EQUIPMENT
Spray atomization, application volume and coverage. 12910

An improved technique for aerial applications of ultra-low-volume materials to experimental plots. 12912

Thiokol swamp spryte equipped with automatic compressed air spraying units for applying granule and liquid insecticides. 12917

Spraying apparatus and method. patent 3,340,087. 12920

SPRINKLER IRRIGATION
Systemic insecticides as lygus bug controls compatible with bee pollination on alfalfa. 12493

SQUASH
Insect abundances on tomatoes and squash mulched with aluminum and plastic sheetings. 12529

STALK ROT (CORN)
A strain of Pseudomonas lapsa isolated from corn seeds causing bacterial stalk rot in India. 12453

STAPHYLOCOCCI
Versuche zur biologischen Bekampfung der Staphylokokken-Mastitis (Experiments on biological control of staphylococcal mastitis). 12615

STAPHYLOCOCCUS AUREUS
Low incidence of staphylococcal dermatitides in animals with high incidence of Staphylococcus aureus. 3. Preliminary study of laboratory animals. 12624

Local immunity in the lactating mammary gland following the infusion of staphylococcal toxoids. 12682

STATISTICAL ANALYSIS
Rate of decay in Pinus strobus following artificial inoculation with Fomes pini. 12462

Dilution method for mold count of catsup. 12793

Statistical applications to repellency assay. (abstract). 12820

STEGASTA BOSQUEELLA
Insect preference for peanut varieties. 12500

STEM PITTING (APPLES)

STEM PITTING (APPLES)
Natural spread of stem pitting virus of apple. 12454

Influence of dapple apple and stem pitting viruses on tree growth and fruit yields over a fourteen-year period. 12455

STEM ROT (PEANUTS)
Sclerotium rolfsii and its control on tomato and peanut. 12473

STEM RUST (GRAIN)
Some uredospore characteristics of importance in experimental epidemiology. 12418

STEM RUST (WHEAT)
The physiology of penetration and infection by urediospores of rust fungi. 12439

STEREOCHEMISTRY
Insect sex attractants. VIII. structure-activity relationships in sex attractant for male cabbage loopers. 12492

STERILIZATION
Control of fruit flies Dacus zonatus Saunders by gamma-rays. 12350

Resistance in Aedes aegypti to chemosterilants. effect of apholate selection on resistance to apholate, tepa, and metepa. 12368

Gamma irradiation of European corn borer larvae. 12370

Effect of aeration on gamma irradiation of house fly pupae. 12375

Sterile-male releases control populations of Drosophila melanogaster in cage tests. 12381

Inherited semi-sterility in Aedes aegypti. (abstract). 12386

Field experiments with sterile males for eradication of the boll weevil. 12483

Gamma irradiation of pupae of the tobacco budworm. 12485

Chemosterilization of male European corn borers by feeding of tepa and apholate to larvae. 12488

Suppression of Drosophila melanogaster in tomato field plots by the release of flies sterilized by apholate. 12505

STEROLS
The conversion of cholestanone to cholestanol by the house-fly, Musca domestica L. 12330

STILESIA GLOBIPUNCTATA
The vectors of Stilesia globipunctata (Rivolta, 1874) of sheep. 12759

STIMULANTS
Attractant and stimulant factors for oviposition of Culex pipiens fatigans in natural breeding sites. 12351

STINKING SMUT (WHEAT)
A new race of Tilletia caries. 12446

STOMATITIS
Comparative investigations on stomatitis papulosa, pseudocowpox, and milkers' nodules virus strains. 12651

STOMOXYS CALCITRANS
Some factors affecting kill of the stable fly, Stomoxys calcitrans (L.), with insecticidal thermal aerosols. (abstract). 12322

Laboratory tests with promising insecticides for control of adult and larval stable flies. 12508

STORAGE
A trap for the detection and recovery of insects in stored grain. 12784

Studies on the effect of airtightness on the development of Tribolium castaneum Herbst (Coleoptera: Tenebrionidae) in wheat and wheat flour. 12787

STORAGE DISEASES
A storage decay of Crownvetch (Coronilla varial "crowns" caused by Fusarium roseum and its control by fungicide dip treatments. 12776

STORED PRODUCTS
Government Pest Infestation Laboratory (stored products and household pests). annual report, 1966. 12782

Neem seed as a protectant against bruchid Callosobruchus maculatus (Fabricius) infesting some leguminous seeds. 12783

Some insecticidal trials for the protection of til seeds in storage. 12785

Pests of stored products. SB937 .S8. 12786

Climate and potential range of distribution of stored-product mites in Japan. 12788

STRAIN GAUGES
Strain-gauge transducer studies on intratracheal pressure and pupal length during discontinuous respiration in diapausing silkworm pupae. 12317

STRAWBERRIES
A sensitive strawberry virus indicator clone of Fragaria vesca from the USSR. 12444

Comparisons of soil and foliar applications of acaricides for control of the two-spotted spider mite on strawberries in southern California. 12525

STREPTOCOCCUS AGALACTIAE
Streptococcus agalactiae: a frequent cause of high bacteria count in milk. 12688

Experimental Streptococcus agalactiae mastitis in cattle. attempts to superimpose the organism in lactating glands harboring unrelated bacterial infections and in glands with experimentally induced sterile inflammation. 12700

STREPTOCOCCUS BACTERINS
Swine abscesses caused by Lancefield's group E streptococci. III. application of a precipitin test in selected groups of market pigs. 12703

Swine abscesses caused by Lancefield's group E streptococci. IV. test of two bacterins for immunization. 12704

STREPTOCOCCUS PYOGENES
Anti-microbial therapeutics consisting of nitrofurantoin, tetracycline, and D-glucosamine. patent 3,328,258. 12864

STREPTOMYCES ARMENTOSUS
Antibiotic armentomycin and a process for producing the same. patent 3,342,681. 12842

STREPTOMYCES GRISEUS
Antibiotic erizomycin and process for making same. patent 3,367,833. 12882

STREPTOMYCIN
Streptomycin treatment of bovine carriers of Leptospira pomona. 12602

STRIDULATION
Methods of sexing live adult western pine beetles. 12310

STROBANE
Low-volume aerial spraying of several insecticides for cotton-insect control. 12476

STRONGYLOIDES RANSOMI
Larval distribution and histopathology of experimental Strongyloides ransomi infection in young swine. 12775

STRONGYLOSIS
Trials of simultaneous treatment of gastro enteritic strongylosis and monieziasis of cattle with a mixture of thiabendazole and niclosamide. 12757

SUCTION TRAPS
The flight activity of some British Hemerobiidae and Chrysopidae, as indicated by suction-trap catches. 12367

SUGAR
The utilization of sugars by insect cells in culture. 12321

SUGAR BEETS
Field experiments on sugar-beet downy mildew (Peronospora farinosa). 12421

Preliminary evaluation of soil insecticide for sugar-beet

root maggot control. 12514

Darkness and the activity of diquat and paraquat on tomato, broad bean and sugar beet. 12544

SUGARCANE
Occurrence of a mosaic disease of sweet sorghum in four southern states. 12475

Three Cicadellid-species injurious to agriculture (Hemiptera). 12491

The relationship of arthropod predators to crop damage inflicted by the sugarcane borer. 12511

SULFAMETHAZINE
Note on a simplified ion exchange method for sulfamethazine in feeds. 12596

SULFIDES
Non-selective herbicidal method. patent 3,360,358. 12899

SULFINYLPYRIDINES
Sulfinyl- and sulfonylpyridine pesticidal compositions and method of use. patent 3,371,011. 12889

SULFONYLPYRIDINES
Sulfinyl- and sulfonylpyridine pesticidal compositions and method of use. patent 3,371,011. 12889

SULFUR COMPOUNDS
Method for controlling insects and worms with organophosphorus cyclic sulfone compositions. patent 3,341,407. 12760

Insecticidal compositions containing carbamates of 5- and 6-membered heterocsulfur compounds and method of controlling insects with same. patent 3,338,782. 12840

SURVEYS
Encephalitis surveillance in Harris County, Texas. 12388

Surveillance of Aedes aegypti in the U.S. air Force. 12392

Current status of Third United States Army Aedes aegypti eradication program. 12403

A survey of sheep bot fly larva infestations in Kentucky. 12742

Animal sentinels in a statewide arthropod-borne encephalitis surveillance program. 12749

SWAYBACK
Cardiovascular system in naturally occurring copper deficiency and swayback in sheep. 12590

SWEETCLOVER
Inheritance of resistance in sweetclover to the sweetclover aphid. 12504

SWEETCORN
Occurrence of a mosaic disease of sweet sorghum in four southern states. 12475

Minimum number of insecticide applications for the control of the European corn borer on sweet corn in Quebec. 12490

SWEETENING AGENTS
Supplying at least about 4 percent iron and a sweetening agent for the prevention of iron-deficiency anemia in baby pigs. patent 3,332,778. 12732

SWIETENIA
Outbreaks and new records: United States. oriental wood borer, a new record. 12789

SWINE
Further studies on porcine enteroviruses isolated at Cambridge. i. infections in SPF pigs and the preparation of monospecific antisera. ii. serological grouping. 12557

Swine toxicosis associated with fumigated grain. 12571

Inclusion-body rhinitis of pigs: Attempts to grow the causal agent in tissue cultures. 12572

Effects of attenuated hog cholera virus in pregnant swine at various stages of gestation. 12591

A viral gastroenteritis of Ontario swine. i. clinical illness and recovery of the virus. 12600

First observation of beta C botulism in swine in Senegal. 12606

Zinc deficiency in reproducing gilts fed a diet high in calcium and its effect on tissue zinc and blood serum alkaline phosphatase. 12628

Chronic mercurial poisoning in swine. a case report of an outbreak with some epidemiological characteristics of hog cholera. 12637

Porcine nephroblastoma. 12639

Investigations on immunogenetics of ethanol-inactivated vaccines against Aujeszky's disease. 12642

Exudative epidermitis in pigs: Bacteriological studies on the causative agent. 12647

Uber eine Methode zur Untersuchung des Thymus bei Ferkelkrankheiten (Method for thymus study in piglet diseases). 12649

Effect of oat hulls and other oat fractions on the development of gastric ulcers in swine. 12660

Experiments of immunization against the classic swine pest with the application of the principle of interferential vaccines. 12687

Swine abscesses caused by Lancefield's group E streptococci. iii. application of a precipitin test in selected groups of market pigs. 12703

Swine abscesses caused by Lancefield's group E streptococci. iv. test of two bacterins for immunization. 12704

Hematologic changes and clinical signs of trichinosis in pigs. 12716

Swine mycoplasma. 12718

Supplying at least about 4 percent iron and a sweetening agent for the prevention of iron-deficiency anemia in baby pigs. patent 3,332,778. 12732

Toxoplasmosis in pigs, an experimental study of oral infection and infection through the skin. 12733

Larval distribution and histopathology of experimental Strongyloides ransomi infection in young swine. 12775

SWINE ADENOVIRUS
Studies of the pathogenic properties of a porcine adenovirus. 12702

SYNTHETIC DIETS
Continuous rearing of aphids of the Aphis fabae complex on sterile synthetic diet. 12327

Survival and development of European corn borers fed gossypol in artificial diets. 12344

Oviposition by onion maggot adults fed on a chemically defined diet. 12371

SYSTEMIC INSECTICIDES
Control of the iris borer with systemic insecticides. 12478

Systemic insecticides as lygus bug controls compatible with bee pollination on alfalfa. 12493

Acylsulfamoylphenyl phosphate warm-blooded animal systemic insecticides. patent 3,341,409. 12738

Treatment experiments with systemic insecticides against the larvae of the reindeer gruh fly (Oedemagena tarandi L) and the reindeer nostril fly (Cephenomyia trompe L). 12751

T, 2,4,5-
Herbicide-insecticide formulations for control of the American dog tick. 12745

TANKS

TANKS
An improved portable sheep dipping vat. 12922

TANNING
Calcification, tanning, and the role of ecdyson in the formation of the puparium of the facefly, Musca autumnalis. 12337

TDE
Low-volume aerial spraying of several insecticides for cotton-insect control. 12476

Low-volume dusts for control of the cotton bollworm. 12502

TEMPERATURE
Effect of minus 29 degrees F on overwintering populations of the balsam woolly aphid in North Carolina. 12308

Factors influencing the response of Ips confusus (Coleoptera: Scolytidae) to male attractant. 12316

Cold-hardiness of Empoasca fabae and some related species. 12329

Experimental induction and elimination of adult diapause and autumnal coloration in Chrysopa carnea (Neuroptera). 12360

Effect of temperature and relative humidity on hatching of eggs and on longevity of adults of Aedes vexans (Meigen). (abstract). 12390

Effect of temperature and length of incubation on symptom development of Lambert mottle of sweet cherries. 12412

Some uredospore characteristics of importance in experimental epidemiology. 12418

Influence of temperature on phytotoxicity of triazine herbicides to pine seedlings. 12548

Effect of incubation temperature and serum content in agar overlay on plague production by foot-and-mouth disease virus. 12579

Climate and potential range of distribution of stored-product mites in Japan. 12788

TENDIPES
An evaluation of the bottom fauna and its role as fish food in Fern Lake, Washington. 12299

TEPA
Resistance in Aedes aegypti to chemosterilants. effect of apholate selection on resistance to apholate, tepa, and metepa. 12368

Chemosterilization of male European corn borers by feeding of tepa and apholate to larvae. 12488

TESTES
A mycoplasma associated with ovine orchitis. 12664

TETANOPS MYOPAEFORMIS
Preliminary evaluation of soil insecticide for sugar-beet root maggot control. 12514

TETANY
Hypomagnesaemic tetany in cattle. i. incidence, aetiology, diagnosis and treatment. 12577

TETRACYCLINES
Anti-microbial therapeutics consisting of nitrofurantoin, tetracycline, and D-glucosamine. patent 3,328,258. 12864

TETRAHYDRO-1-NAPHTHYL-N-METHYL CARBAMATE, 5,6,7,8-
Method of killing insects with 5,6,7,8-tetrahydro-1-naphthyl -N-methyl-carbamate. patent 3,341,404. 12901

TETRAMIC ACID
Method of inhibiting bacteria with tetramic acid and derivatives thereof. patent 3,361,626. 12878

TETRANYCHUS URTICAE
Comparisons of soil and foliar applications of acaricides for control of the two-spotted spider mite on strawberries in southern California. 12525

TETRASTICHUS INCERTUS
Biology and distribution of Tetrastichus incertus, a parasite of the alfalfa weevil. 12378

THELAZIASIS
Untersuchungen uber das Vorkommen von Augenwurmern, Thelazien, beim Rind im Einzugshereich des Schlachthofes Hanover. (Investigations on the occurrences of eyeworms (Thelazia spp) in cattle in the catchment area of Hanover slaughterhouse). 12754

THERAPEUTICS
Potassium and its role in parturient paresis. 12636

Udder insufflation and its physiologic basis for treatment of parturient paresis in cattle. 12661

Contribution to the therapy of acetonemia of cattle. 12689

Diagnosis, treatment, and preventive therapy for heartworms. 12763

Therapeutic trials with Maretin in calves infected with Ostertagia and Cooperia. 12774

THERIOAPHIS MACULATA
Behavior of the spotted alfalfa aphid,Therioaphis maculata (Buckton), on resistant and susceptible alfalfas. 12497

THERIOAPHIS RIEHMI
Inheritance of resistance in sweetclover to the sweetclover aphid. 12504

THERMIONIC DETECTORS
Gas chromatographic determination of residues of organophosphorus pesticides with a modified flame ionization detector. 12865

THESES
An evaluation of the bottom fauna and its role as fish food in Fern Lake, Washington. 12299

Bionomics and zoogeography of tiger beetles of saline habitats in the central United States (Coleoptera: Cicindelidae). 12307

Mosquito control on Smith Mountain reservoir by pumped storage water level management. 12340

Incorporation of radioactive amino acids by Coxiella burnetii and its host, the chick embryo. 12657

e-59 and CR-51 studies of the effect of partial-body X-irradiation on Erythropoiesis in beagles. 12685

THIABENDAZOLE
Trials of simultaneous treatment of gastro enteritic strongylosis and monieziasis of cattle with a mixture of thiabendazole and niclosamide. 12757

TRIAZOLIUM SALTS
Compositions and methods for the treatment and prevention of coccidiosis in poultry. patent 3,337,401. 12768

THIELAVIOPSIS BASICOLA
Sources of resistance in the genus Gossypium to several soilborne pathogens. 12442

THIO-MONOFLUORO-DICHLORO-METHYL IMIDES, N-
Method of controlling fungi with n-thio-monofluoro-dichloro-methyl imides. patent 3,341,403. 12894

THIOCARBAMATES
Spectrophometric determination of dithiocarbamate residues on food crops. 12804

Herbicidal composition and method. patent 3,330,643. 12876

THIOCYANATES
Method for controlling microorganisms and nematodes. patent 3,361,621. 12539

TRIOIC ACIDS
Herbicidal composition and method. patent 3,330,643. 12876

THIOPHOSPHATES
Procedure for nine organothiopbospbate pesticide residues on fruits and vegetables, using micrccoulometric gas cbromatcgrapby. 12810

THIRAM
Fusarium scab of sorgbum in Nigeria. 12427

A storage decay of Crownvetch (Coronilla varial "crowns" caused by Fusarium roseum and its control by fungicide dip treatments. 12776

THORICIDE
An experimental spray program for integrated ccntrol of insects affecting scur cberry. 12513

Inhibitive effect cf Bacillus tburingiensis on the development of tbe face fly in cow manure. 12740

THYMECTOMY
Immunclogic competence of thymectomized neonatal calves. 12580

THYMUS GLAND
Ober eine Methode zur Untersuchung des Thymus bei Ferkelkrankheiten (Metbod for thymus study in piglet diseases). 12649

THYROPROTEIN
Effect of tbyroprotein and a low-energy ration on removal of DDT from lactating dairy cows. 12B09

THYSANOEA
A furtber pest species of silverfish (Thysanura) from Australia, witb a key to the domestic species. 12790

TILLAGE
Effect cf different soil tillage methods on residual after-effect cf simazine . vliyanie razlichnykh sposobov osnovnoi obrabotki pocbvy na posledeistvie simazina. 12806

TILLETIA CARIES
A new race of Tilletia caries. 12446

TISSUE CULTURE
Inclusicn-body rhinitis of pigs: Attempts to grow the causal agent in tissue cultures. 12572

Segregaticn of a nonbemadsorbing African swine fever virus in tissue culture. 12586

Susceptibility of tissue culture cells to foot-and-moutb disease virus; concentration of bovine serum in culture medium. 12684

Fluorescein-labeled goat milk antibodies: Use in detection of mumps virus in tissue culture. 12699

The use of tissue culture rinderpest vaccine for Egyptian cattle and water buffaloes. 12709

TISSUES
Effect of diet or diethylstilbestrol on fatty acid composition of bovine tissues. 125B4

Zinc deficiency in reproducing gilts fed a diet bigh in calcium and its effect on tissue zinc and blood serum alkaline pbospbatase. 12628

Dimetboate residues in eggs and tissues of laying bens. 12811

TOBACCO
Synthesis of indoleacetic acid by cell-free systems from Pseudomonas solanacearum and Nicotiana tabacum. 12451

Occurrence of tobacco diseases in Kentucky in 1966. 12465

Biology of the cabbage looper on tobacco in North Carolina. 12484

Studies on antifeeding properties cf triphenyltin acetate against the tobacco caterpillar, Prodenia litura F. 12494

Seasonal trends in catcbes of mctbs of the tobacco bornworm, tomatc hornworm, and corn earworm in traps equipped with blackligbt lamps in North Carolina. 12527

Method of tobacco sucker control. patent 3,340,040. 12836

Metbod of desuckering tobacco plants with azo-, hydrazo-, and azoxy-benzenes. patent 3,361,553. 12B3B

TOMATOES
Sclerotium rolfsii and its control on tomato and peanut. 12473

Suppression of Drosophila melanogaster in tomato field plots by tbe release of flies sterilized by apholate. 12505

1967 insecticide recommendations; pests of greenhouse tomatoes. 12521

1967 insecticide recommendations; insects of tomatoes. 12522

Insect abundances on tomatoes and sguasb mulched witb aluminum and plastic sheetings. 12529

Reduction of root knot of tomatoes with crop residue amendments in field experiments. 12537

Observations on the effect of sawdust on incidence of root knot and on yield of okra and tomatoes in nematode-infested soil. 12541

Darkness and the activity of diquat and paraguat on tomato, broad bean and sugar beet. 12544

Dilution method for mold count of catsup. 12793

TONGUE
The development of petechial baemorrhages on tbe under-surface of the tongue of the horse and its relation to infection with the virus of eguine infectious anaemia. 12713

TOXAPHENE
Low-volume aerial spraying of several insecticides for cotton-insect control. 12476

Control of tbe lone star tick on cattle. 12739

Field weatbering of toxapbene and cblordane. 12B07

TOXEMIA
Adenohypophyseal insufficiency in two cows witb pregnancy toxemia. 12632

TOXICITY
Toxicity of insecticides to house crickets and bioassay of treated soils in tbe laboratory. 12318

Factors affecting the toxicity of diazinon Musca domestica L. 12343

Toxicity of five insecticides to several insect predators. 12358

WARF anti-resistant: DDT selection and house fly cross-resistance. 12384

Laboratory and field studies on mosguito control in waste disposal lagoons in Louisiana. (abstract). 12409

Systemic insecticides as lygus bug controls compatible witb bee pollination on alfalfa. 12493

Laboratory tests with promising insecticides for control of adult and larval stable flies. 12508

The effects on wildlife from Norway rat control using zinc phospbide bait. 12555

Versuche zur Beeinflussung von Acetylcholin, Neguvon und Asuntol durch Atropin (Experiments for influencing acetylcholine, neguvon and asuntol with atropine). 12B15

The safe use of modern pesticides. 2. 12926

TOXICOLOGY
Histological and electron-microscopic studies on experiental liver cirrbosis in ducklings produced by aflatoxin. 12645

Diagnosis and treatment of adverse reactions in cattle treated for grubs witb a systemic insecticide. 12822

TOXICOSIS
Vertebral biopsies in the diagnosis of bovine fluoride toxicosis. 12556

TOXOPLASMOSIS

TOXOPLASMOSIS
Transmission of Toxoplasmosis through food consumption. 12692

Toxoplasmosis in pigs, an experimental study of oral infection and infection through the skin. 12733

TRANQUILIZERS
Teratogenic effects of a tranquilizer, trifluoperazine dihydrochloride on the yellow-fever mosquito. 12369

TRANSDUCERS
Strain-gauge transducer studies on intratracheal pressure and pupal length during discontinuous respiration in diapausing silkworm pupae. 12317

TRANSLATIONS
Key for determination of the most common, species of the genus Alternaria (Nees)Wiltsh. Emend. Joly. 12437

TRANSMISSIBLE GASTROENTERITIS VIRUS
A viral gastroenteritis of Ontario swine. i. clinical illness and recovery of the virus. 12600

TRANSMISSION
Studies on bluetongue. vI. animal transmission studies. 12622

TREE DISEASES
Rusts on Indian forest trees. 12415

Rate of decay in Pinus strobus following artificial inoculation with Pomes pini. 12462

TREE INJURIES
Attractiveness to Nitidulidae (Coleoptera) of natural attrahents of trees and fungus origin supplemented with vinegar and water in an Appalachian hardwood forest. 12366

TREES
Attractiveness to Nitidulidae (Coleoptera) of natural attrahents of trees and fungus origin supplemented with vinegar and water in an Appalachian hardwood forest. 12366

1967 insecticide recommendations; insects of growing Christmas trees. 12520

Influence of temperature on phytotoxicity of triazine herbicides to pine seedlings. 12548

Inoculation of monterey pine with dwarf mistletoe from bishop pine. 12550

TREHALOSE
The utilization of sugars by insect cells in culture. 12321

TRIAZINES
Herbicidal 2-methylthio-s-triazines. patent 3,326,914. 12896

TRIBOLIUM CASTANEUM
Some insecticidal trials for the protection of til seeds in storage. 12785

Studies on the effect of airtightness on the development of Tribolium castaneum Herbst (Coleoptera: Tenebrionidae) in wheat and wheat flour. 12787

TRIBOLIUM CONFUSUM
Respiration of the confused flour beetle in five atmospheres of varying CO2:O2 ratios. 12780

Respiration of confused flour beetle adults in CO2 or N2 and after sublethal fumigation. 12781

TRICHINELLA SPIRALIS
Hematologic changes and clinical signs of trichinosis in pigs. 12716

TRICHLORFON
Toxicity of five insecticides to several insect predators. 12358

Versuche zur Beeinflussung von Acetylcholin, Neguvon und Asuntol durch Atropin (Experiments for inflnencing acetylcholine, negnvon and asuntol with atropine). 12815

TRICHOPLUSIA NI
Sex pheromones of noctuid moths. xIV. feasibility of behavioral control by disrupting pheromone communication in cabbage loopers. 12374

Biology of the cabbage looper on tobacco in North Carolina. 12484

Insect sex attractants. vIII. structure-activity relationships in sex attractant for male cabbage loopers. 12492

Effects of organometallic compounds on Lepidoptera. 12528

Control of the cabbage looper and corn earworm with nuclear polyhedrosis virnses. 12530

TRICHOSTRONGYLOSIS
Active immunity against Trichostrongylns axei in sheep and rabbits. 12710

Antibody and cellular response in lambs immunized against Trichostrongylns axei. 12711

TRICHOSTRONGYLUS AXEI
Active immunity against Trichostrongylus axei in sheep and rabbits. 12710

Antibody and cellular response in lambs immnnized against Trichostrongylus axei. 12711

TRICYCLIC KETONE
Tricyclic ketone insecticides and process therefor. patent 3,331,860. 12884

TRIBALOPHENYL-2-PROPINYL ETHER
Novel insecticidal carbamate-propargylaryl ether compositions. patent 3,362,871. 12862

TRIPHENYLTIN ACETATE
Studies on antifeeding properties of triphenyltin acetate against the tobacco caterpillar, Prodenia litnra F. 12494

TRITIUM
Translocation of tritinm-labelled gibberellic acid in pea stem segments and potato tuber cylinders. 12826

TROGODERMA GRANARIUM
The humidity responses of Trogoderma granarinm Everts (Coleoptera, Dermestidae). 12383

TRYPANOSOMA RANNAI
Research note: Incidence of endoparasitism in a gronp of pigeons in the Chicago area. 12634

TRYPTOPHAN
Synthesis of indoleacetic acid by cell-free systems from Pseudomonas solanacearnm and Nicotiana tabacnm. 12451

TUBERCULIN TEST
Evaluation of an intravenous tuberculin test in cattle. 12646

TUBERCULOSIS
Pulmonary bovine tuberculosis in an owner and in his dairy herd. 12563

Contagious bovine plenropneumonia and the problems associated with its control. 12652

A half century of successful control of the bovine tuberculosis in Cambrai. 12669

TURF
Fungicidal control of red thread disease of turfgrass in western Washington. 12430

TURKEYS
Comparative studies on immnnogenicity of Arizona (7:1,7,8) adjuvant bacterins in mice and turkeys. 12668

TURNIP GREENS
Detection of leaf miners in canned spinach and turnip greens. 12778

TYLENCHULUS SEMIPENETRANS
Citrus nematode found widespread in Florida. 12542

TYPHLODROMUS
Five new phytoseid mites from U.a.r., with collection notes on three other species (Acarina: Phytoseiidae). 12298

UDDERS
Udder insufflation and its physiologic hasis for treatment of parturient paresis in cattle. 12661

ULCERS
Effect of oat hulls and other oat fractions on the development of gastric ulcers in swine. 12660

ULTRA LOW VOLUME APPLICATION
An improved technigue for aerial applications of nltra-low-volume materials to experimental plots. 12912

ULTRAVIOLET RAYS
Preliminary ohservations on the in vitro photoreactivation of an insect virus inactivated with ultraviolet radiation0. 12328

Effects of low-level ultra-violet irradiation on reproduction of Aedes aegypti (L.) (preliminary report) (ahstract). 12407

UNITED STATES
Index to genera of pathogens listed in the "index of Plant Diseases in the United States". 2. 12432

Outbreaks and new records: United States. oriental wood horer, a new record. 12789

UREA COMPOUNDS
Herbicidal methods and compositions employing 3,4-dichloro-phenyl dimethyl and methylethyl ureas. patent 3,343,943. 12888

UREA DERIVATIVES
Carhanilide compositions and methods of using same. patent 3,340,145. 12659

UREDINALES
Bnsts on Indian forest trees. 12415

URINE
The effect of feeding oxytetracycline on leptospiruria in pigs infected with Leptospira pomona. 12603

Microdetermination of phosphorus. 12813

USSR
A sensitive strawberry virns indicator clone of Fragaria vesca from the USSR. 12444

USTILAGO AVENAE
Distrihutign and prevalence of virulence for Victoria oats in Ustilagc avenae. 12435

Bace population dynamics in Ustilago avenae as related to the persistence of loose smut in oats. 12436

UTERUS
Salpingo-ovario-hursitis amongst buffaloes. 12641

VACCINES
Mycoplasma gallisepticum in a ccmmercial laryngotracheitis vaccine. 12567

Blnetongue of sheep and cattle: Past, present, and future. 12575

Treatment of arteriosclerotic diseases. patent 3,337,406. 12597

Modified laryngotracheitis vaccine. patent 3,331,736. 12618

Avian leukcsis treatment with inactivated rous sarcoma virus. patent 3,326,767. 12631

Investigations on immnnogenetics of ethanol-inactivated vaccines against Anjeszky's disease. 12642

Chromatographic purification of influenza virus with brnshite modified by autoclaving. 12648

Brucellosis antigens. patent 3,342,684. 12650

The nse of polyvalent inactivated vaccine therapeutically against equine inflnenza. 12658

Comparative studies on immuncgenicity of Arizona (7:1,7,8) adjuvant hacterins in mice and turkeys. 12668

Experiments of immunization against the classic swine pest with the application of the principle of interferential vaccines. 12687

Investigation into the usefulness of the non-agglutinogenic Brucella abortus adjuvant vaccine Duphavac N.A. in the control of bovine hrucellosis. 12694

The use of tissue culture rinderpest vaccine for Egyptian cattle and water huffaloes. 12709

Brucellosis. definition of official vaccinate. 12723

Immunity response from an inactivated infectious hronchitis vaccine. 12734

VEGETABLES
Residues in foods. (Chlorinated pesticides). 12798

Thin-layer chromatoggraphic determination of carbaryl (Sevin) in some foods. 12799

Determination of 3-amino-1,2,4-triazole in crops. 12800

Spectrophometric determination of dithiocarhamate residues on food crops. 12804

Field weathering of toxaphene and chlordane. 12807

Procedure for nine organothiophosphate pesticide residues on fruits and vegetahles, using microconlometric gas chromatography. 12810

VEHICLES
Vehicle mounted aspirators. 12911

Thiokol swamp spryte equipped with automatic compressed air spraying units for applying granule and liquid insecticides. 12917

A collapsihle portahle vehicle mounted insect trap. (abstract). 12918

A low cost airhoat for nse in mosquito control. 12923

VENTILATION
A portahle unit for ventilating insect cages. 12916

VERMINOUS BRONCHITIS
Ohservations on Muellerius capillaris (Muller, 1889) Dcameron, 1927. iII. experimental infection of sheep. 12756

VERTEBRAE
Vertebral biopsies in the diagnosis of hovine fluoride toxicosis. 12556

VERTICILLIUM ALBO-ATRUM
Sources of resistance in the genus Gossypium to several soilhorne pathogens. 12442

Pratylenchns penetrans, its interaction with Verticillium albo-atrum in the Verticillium wilt of potatoes and its attraction hy various chemicals. 12540

VETERINARY MEDICINE
American Veterinary Medical Association. scientific proceedings of the 104th annual meeting, July 9-13, 1967, Dallas,Texas. 12559

VIBRIO FETUS
Mucinase activity of Vihrio fetns. 12598

VINEGAR
Attractiveness to Nitidulidae (Coleoptera) of natural attrahents of trees and fungus origin snpplemented with vinegar and water in an Appalachian hardwood forest. 12366

VIROLOGY
Criteria for determining the validity of a virus isolation. 12623

VIRUCIDES
Dimethyl sulfoxide inhihition and control of plant virus diseases. patent 3,334,012. 12433

VIRUS DISEASES (ANIMALS)
Isolation and characterization of hovine enteric viruses. 12726

VIRUS DISEASES (INSECTS)

VIRUS DISEASES (INSECTS)
Preliminary observations on the in vitro photoreactivation of an insect virus inactivated with ultraviolet radiation. 12328

Virus-like particles in insect cells of three types. 12334

VIRUS DISEASES (PLANTS)
Effect of temperature and length of incubation on symptom development of Lambert mottle of sweet cherries. 12412

Some effects of supplying benzyladenine to leaves and plants inoculated with viruses. 12413

Fig mosaic. 12417

Field experiments with oil sprays to prevent yellow mosaic virus in irises. 12425

Dimethyl sulfoxide inhibition and control of plant virus diseases. patent 3,334,012. 12433

Viruses mechanically transmitted from pear. 12449

Predominating strains of barley yellow dwarf virus in New York: changes during ten years. 12457

Transmission of exocortis virus of citrus to herbaceous plants. 12471

Occurrence of a mosaic disease of sweet sorghum in four southern states. 12475

Improved laboratory methods for rearing the citrus red mite. 12481

VIRUS PNEUMONIA
The blood picture in steers following oral dosing with Dictyocaulus viviparus and during a latent infection with virus pneumonia. 12630

VIRUSES
The presence of antibodies in the ovine serum inhibiting the hemagglutination by myxovirus parainfluenza. 12612

VITAMIN D
The effects of vitamin D in chicks. 12573

VOLUMETRIC ANALYSIS
Collaborative study of a titrimetric method for the assay of amitrole formulations. 12848

WALNUTS
Population dynamics of the walnut aphid, Chromaphis juglandicola (Kalt) in northern California. 12305

WARF ANTIRESISTANT
WARF anti-resistant: DDT selection and house fly cross-resistance. 12384

WASTE DISPOSAL
Laboratory and field studies on mosquito control in waste disposal lagoons in Louisiana. (abstract). 12409

WATER
Attractant and stimulant factors for oviposition of Culex pipiens fatigans in natural breeding sites. 12351

Effect of detergents and inorganic salts in water on the persistence and movement of insecticides in soils. 12797

WATER METERS
Automatic water metering machine for mosquito larvicide tests. 12914

WATER RESOURCES
Mosquito control and the California Water Plan. 12406

WATER STORAGE
Mosquito control on Smith Mountain reservoir by pumped storage water level management. 12340

WATERMELONS
Interaction of race I and race II of Colletotrichum orbiculare on watermelon. 12445

WEATHER
Field weathering of toxaphene and chlordane. 12807

WEED CONTROL
Influence of temperature on phytotoxicity of triazine herbicides to pine seedlings. 12548

Pyridazones and method for controlling vegetation. patent 3,326,660. 12551

A contribution to the study of control of weeds in soybean stands. 12554

Herbicidal substituted phenoxy acylamides. patent 3,326,942. 12867

WEEDS
Method of selectively destroying weeds. patent 3,332,768. 12545

Skeleton weed a serious threat to California agriculture. 12547

Method for killing potato vines with ammonia. patent 3,331,675. 12552

Simultaneous control of field foxtail grass, silky bent grass, and broad leafed weeds. 12553

Astragalus mollissimus (Locoweed) toxicosis of horses in western Kansas. 12678

WHEAT
Effect of plant size on resistance to snowmold of winter wheat. 12419

Susceptibility of common and durum spring wheats to barley yellow dwarf virus. 12428

The physiology of penetration and infection by uredicspores of rust fungi. 12439

A new race of Tilletia caries. 12446

Simultaneous control of field foxtail grass, silky bent grass, and broad leafed weeds. 12553

Chronic mercurial poisoning in swine. a case report of an outbreak with some epidemiological characteristics of hog cholera. 12637

Studies on the effect of airtightness on the development of Tribolium castaneum Herbst (Coleoptera: Tenebrionidae) in wheat and wheat flour. 12787

WILDLIFE
The effects on wildlife from Norway rat control using zinc phosphide bait. 12555

Bluetongue of sheep and cattle: Past, present, and future. 12575

Animal sentinels in a statewide arthropod-borne encephalitis surveillance program. 12749

WINDBREAKS
The horizontal and vertical distribution of flying insects near artificial windbreaks. 12301

WOOD BORERS
Preventive measures for the protection of wood against Hylotrupes bajulus. 12354

Outbreaks and new records: United States. oriental wood borer, a new record. 12789

WOOD DECAY
Rate of decay in Pinus strobus following artificial inoculation with Fomes pini. 12462

X-RAYS
e-59 and CR-51 studies of the effect of partial-body X-irradiation on Erythropoiesis in beagles. 12685

The effect of dose rate on the acute radiation Syndrome in the beagle, with special consideration for the hematopoietic system. 12735

YELLOW DWARF (BARLEY)
Susceptibility of common and durum spring wheats to barley yellow dwarf virus. 12428

Predominating strains of barley yellow dwarf virus in New

York: changes during ten years. 12457

ZINC
Zinc deficiency in reproducing gilts fed a diet high in calcium and its effect on tissue zinc and blood serum alkaline phosphatase. 12628

ZINC PHOSPHIDE
The effects on wildlife from Norway rat control using zinc phosphide bait. 12555

ZOALENE
Untersuchungen uber die Vertraglichkeit der Coccidiostatica Amprolium und Zoalen.(Investigations on the tolerance of coccidiostats amprolium and zoalene.). 12818

ZOOGEOGRAPHY
The horizontal and vertical distribution of flying insects near artificial windbreaks. 12301

Bionomics and zoogeography of tiger beetles of saline habitats in the central United States (Coleoptera: Cicindelidae). 12307

Distribution of phony peach vectors in South Carolina. 12495

Climate and potential range of distribution of stored-product mites in Japan. 12788

ZOYSIA JAPONICA
Rust on Zoysia in Arkansas. 12467

Abdel-Malek, A A
Cairo University, Giza, Egypt
Faculty of Science
Department of Entomology 12295
Arakawa, A
University of Wisconsin
Department of Veterinary Science 12560
Bagga, B S
Mississippi Agricultural Experiment Station, Stoneville
Delta Branch 12414
Balconi, I B
University of North Carolina
Dept. of Animal Science 12755
Barksdale, T B
U.S. Department of Agriculture, Beltsville
Agricultural Research Service
Crops Research Division
Vegetables and Ornamentals Research Branch 12416
Belino, K
Laboratory Veterinary Inspection Board, Phillipines
Division of Research 12565
Birchfield, W
U.S. Department of Agriculture
Agricultural Research Service
Crops Research Division 12533
Birkeland, B
Veterinary College of Norway
Department of Surgery 12569
Blenden, D C
School of Veterinary Medicine, Columbia, Missouri
Section of Veterinary Public Health 12570
Bone, J F
Oregon State University
Agricultural Experiment Station
Dept. of Veterinary Medicine 12571
Borden, J H
Simon Fraser University, Burnaby, British Columbia
Department of Biological Sciences 12316
Braams, B
University of Utrecht, The Netherlands 12851
Calhoun, M C
University of Delaware
Animal Science and Agricultural Biochemistry Dept. 12578
Carroll, E J
University of California, Davis, Calif.
School of Veterinary Medicine
Dept. of Clinical Pathology and Clinical Sciences 12580
Clor, M A
University of Libya
Department of Botany 12826
Cole, H
Pennsylvania State University, University Park
Department of Plant Pathology 12776
Cordes, D O
Ruakura Veterinary Diagnostic Station, Hamilton, New Zealand 12587
Costantine, D G
Naval Supply Center, Oakland, Calif.
Naval Biolcgical Laboratory
Communicable Disease Center Activities 12589
Cumming, B B
University of New England
Department of Biochemistry and Nutrition 12592
Curnow, J A
New South Wales Department of Agriculture
Cattle Tick Research Station 12593
David, I A
Agricultural Research Council
Unit of Insect Physiology 12328
Dennis, S M
Kansas State University
College of Veterinary Medicine
Department of Pathology, Parasitology and Public Health 12598
Ditchfield, W J B
Ontario Veterinary College
Virus Research Institute 12601
Doherty, P C
Queensland Department of Primary Industries
Animal Research Institute 12602
Doherty, P C
Queensland Department of Primary Industries
Animal Research Institute 12603
Dyte, C E
A. R. C. Pest Infestation Laboratory, Slough, Bucks. 12331
El Badry, E A
Ein Shams University, U.a.r. 12298
Epps, J M
U.S. Department of Agriculture, Jackson, Tennessee
Agricultural Research Service
Crops Research Division 12534
Filshie, B K
Commonwealth Scientific and Industrial Research Organiztion
Division of Entomology 12334
Fitzgerald, P R
University of Illinois
College of Veterinary Medicine
Department of Veterinary Pathology and Hygiene 12614
Foster, N M
U.S. Dept. of Agriculture, Denver, Colo.
Agricultural Research Service
Animal Disease and Parasite Research Division 12616
Fuller, T C
California Department of Agriculture
Sacramento, California 12547
Futrell, M C
U.S. Department of Agriculture
Agricultural Research Service
Crops Research Division 12427
Gill, C C
Canada Department of Agricultnre, Winnipeg, Manitoba
Research Station 12428
Goodwin, D E
Winrock Farms, Morrilton, Arkansas 12621
Hammond, D M
Utah State University
Department of Zoology and Veterinary Science 12762
Hearst, B B
Loyola Medical School
Department of Microbiology 12624
Heron, R J
Forest Research Laboratory, Winnipeg, Manitoba
Department of Forestry and Rural Development 12348
Hibbs, C M
Kansas State University, Manhattan, Kansas
College of Veterinary Medicine
Dept. of Pathology, Parasitology, and Public Health
Dept. of Surgery and Medicine 12625
Hjerpe, C A
University of California, Davis, Calif.
School of Veterinary Medicine
Dept. of Clidical Sciences 12627
Holman, B B
The Wellcome Laboratory, Pirbright, Surrey 12630
Holton, C S
U.S. Department of Agriculture, Pullman, Washington
Agricultural Research Service
Crops Research Division 12435
Holton, C S
U.S. Department of Agriculture, Pullman, Washington
Agricultural Research Service
Crops Research Division 12436
Humphries, D A
University of Aston, Birmingham
Department of Biological Sciences 12349
Ikeshoji, T
Tokyo University, Japan
Institute for Infectious Diseases 12351
Ives, W G B
Forest Research Laboratory, Winnipeg, Manitoba
Department of Forestry and Rural Development 12352
Jasmin, A M
Florida Dept. of Agriculture
Diagnostic Laboratory Section 12635
Jonsson, L
Royal Veterinary College
Department of Pathology 12819
Kable, P F
New South Wales Department of Agricnltnre
Division of Science Services 12438
Kataria, R S
Rafi Ahmed Kidwai Veterinary Institute, Bhopal 12639
Khan, C K A
Mysore Veterinary College 12641
Klun, J A
U. S. Department of Agriculture, Ankeny, Iowa
Agricultural Research Service
Entomology Research Division 12498
Knecht, C D
University of Illinois
College of Veterinary Medicine
Dept. of Veterinary Clinical Medicine and Surgery 12643
Koger, L M
Washington State University
College of Veterinary Medicine
Dept. of Clinical Medicine and Snrgery 12644
L'Ecuyer, C
Canada Dept. of Agricultnre, Quebec, Canada
Animal Disease Research Institute
Animal Pathology Division

Lefkovitch, L P
Health of Animals Branch 12647
Lefkovitch, L P
Canada Department of Agriculture, Ottawa
Statistical Research Service 12300
Leonard, D E
Connecticut Agricultural Experiment Station, New Haven 12357
Lindley, E P
Near East Animal Health Institute, Khartoum, Sudan 12652
Luchsinger, D W
University of Minnesota, St. Paul
College of Veterinary Medicine
Animal Health Division 12653
Mathre, D E
Montana State University, Bozeman
Department of Botany and Microbiology 12442
Mayer, V M
University of Maryland
College of Agriculture
Department of Veterinary Science 12662
McCain, C S
Auburn University
Department of Microbiology 12663
McGuffin, W C
Department of Forestry and Rural Development, Canada 12362
McIlwain, P K
North Dakota State University
Department of Veterinary Science 12664
McKay, K A
Canada Dept. of Agriculture, Quebec
Animal Disease Research Institute
Animal Pathology Division
Health of Animals Branch 12665
McMartin, D A
Veterinary Laboratory, Eskgrove Lasswade, Midlothian 12666
Miller, D D
New Mexico State University
Dairy Department 12809
Milne, F J
University of Guelph, Guelph, Ontario
Ontario Veterinary College
Dept. of Clinical Studies 12667
Moller, K
Huntly District Veterinary Club (inc.) New Zealand 12670
Moody, A B
University of California, Berkeley
Department of Plant Pathology 12447
Nagi, M S
Disease Investigation Laboratory, Delhi, India
Animal Husbandry Department 12673
Nelson, N C
Louisiana State University
School of Medicine
Dept. of Surgery 12674
New, T B
Imperial College Field Station, Silwood Park, Berks. 12367
Nichols, J B
Florida State Board of Health
Division of Veterinary Public Health 12749
Nielson, M W
U. S. Department of Agriculture, Tucson, Arizona
Agricultural Research Service
Entomolcgy Research Division 12512
Niphadkar, S M
Bombay Veterinary College 12750
Nordkvist, M
National Veterinary Institute, Stockholm 12751
Nusbaum, S R
New York State Dept. of Agriculture
Division of Animal Industry 12676
O'Hara, J L
U.S. Dept. of Agriculture, Reno, Nevada
Division of Animal Industry 12677
Oehme, F W
University of Missouri
School of Veterinary Medicine
Dept. of Veterinary Physiology and Pharmacology 12678
Osburn, B I
Oklahoma State University, Stillwater, Oklahoma
College of Veterinary Medicine
Dept. of Veterinary Pathology 12681
Parmeter, J R
University of California, Berkeley
Department of Plant Pathology 12550
Patty, R E
U. S. Department of Agriculture
Agricultural Research Service
Plum Island Animal Disease Laboratory
Animal Disease and Parasite Research Division 12684
Pilet, C
Ecole Nationale Veterinaire d'Alfort. 12687
Powell, H S
Clemson University
Livestock Poultry Health Department 12688
Rangarajan, M
University of Udaipur, India
Agricultural Experiment Station
Plant Pathology Research Division 12453
Raybould, J N
East Africa Institute of Malaria and Vector Borne Diseases 12823
Reed, E M
Commonwealth Scientific and Industrial Research Organiztion
Division of Entomology 12372
Roberts, R R
D.s. Department of Agriculture, Delaware, Ohio
Agricultural Research Service
Crops Research Division 12456
Rosenquist, B D
University of Missouri
Space Sciences Research Center 12696
Rubin, L F
University of Pennsylvania
School of Veterinary Medicine
Dept. of Clinical Studies 12697
Rubin, R
Colorado State University, Fort Collins, Colorado
College of Veterinary Medicine and Biomedical Sciences
Dept. of Pathology 12774
Sattar, S A
University of Karachi, Pakistan 12699
Saunders, P J W
National Institute OF Agricultural Botany, Cambridge 12458
Sawicki, R M
Rothamsted Experimental Station, Harpenden, England 12385
Schalm, O W
University of California, Davis
School of Veterinary Medicine
Department of Clinical Pathology 12700
Schalm, O W
University of California, Davis
School of Veterinary Medicine
Department of Clinical Pathology 12701
Shuman, R D
D. S. Dept. of Agriculture, Ames, Iowa
Bacterial and Mycotic Diseases ADP Research Division
National Animal Disease Laboratory 12703
Shupe, J L
Utah State University
Veterinary Department 12707
Shupe, J L
Utah State University
Veterinary Department 12708
Silverborg, S B
Syracuse University, New York
State University College of Forestry 12462
Singh, K V
Near East Animal Health Institute
Rinderpest Research Laboratories 12709
Singh, R S
Uttar Pradash Agricultural Experiment Station, Pantnagar 12541
Sinha, P K
Bengal Veterinary College
Department of Pathology and Preventive Veterinary Medicine 12710
Sinha, P K
Bengal Veterinary College
Department of Pathology and Preventive Veterinary Medicine 12711
Sittig, M
Princeton University 12906
Sluss, R R
University of California, Berkeley
Division of Biological Control 12305
Smith, R E
University of Massachusetts
Massachusetts Agricultural Experiment Station
Department of Veterinary and Animal Sciences 12712
Steck, W
Universitat Berd
Veterinar-medizinischen 12713
Stewart, P A
North Carolina State University
Entomology Research Division 12377
Stone, W M
University of Georgia
College of Agriculture
Animal Disease Dept.
Coastal Plaid Experiment Station 12775
Strafuss, A C

University of Missouri
School of Veterinary Medicine 12716
Summers, W A
Indiana University
School of Medicine
Department of Microbiology 12717
Suttie, S W
University of Wisconsin, Madison, Wisconsin
Department of Biochemistry 12556
Taylor, D
College of Veterinary Medicine, Helsinki, Finland
Department of Medicine 12719
Van Der Maaten, M J
Iowa State University
Veterinary Medical Research Institute 12726
Vogel, S
Duke University, Durham, North Carolina
Department of Zoology 12379
Whipp, S C
University of Minnesota
Graduate School 12731
Wilson, S G
Ahmadu Bello University
Faculty of Veterinary Medicine 12733
Young, P A
Texas Agricultural Experiment Station, Jacksonville
Tomato Laboratory 12473

Abdel-Aal, M A 12295
Abdel-Malek, A A 12295
Adair, H M 12476
Adams, W 12632
Addor, R W 12840
12841
Adler, H E 12668
Aehi, H 12861
Afanasiev, M M 12412
Ahrens, E H 12746
Aichenegg, E C 12531
Akesson, N B 12910
Aldwinckle, H S 12413
Alexander, T S L 12557
Alford, R H 12558
Allcroft, R 12577
Allen, A D 12822
Amman, G D 12308
Anderson, R K 12653
Apple, J W 12477
Appleby, J E 12478
Arakawa, A 12560
Arambulo, E V 12565
Argoudelis, A D 12842
12843
Arnall, P 12761
Arnell, J H 12402
Arnold, D G 12309
Asman, M 12386
Ate, N I 12310
Atkinson, J M 12784
Baerg, D C 12387
Bagga, H S 12414
Bahar sefat, F 12561
Bailey, L 12311
Bailey, S F 12387
Bailie, W E 12678
Baird, J 12611
Baisas, F E 12393
Baker, J E 12338
Baksbi, B K 12415
Bakulov, I A 12562
Balconi, I R 12755
Baldwin, J B 12563
Balls, L D 12705
Balsbaugh, E U 12741
Baltazzi, E 12844
Bannister, G L 12574
12622, 12698
Barksdale, T H 12416
Barlow, R M 12590
Barnes, D K 12479
Barnhart, C S 12915
12918
Bartley, E E 12715
Bartnett, R E 12388
Batten, A 12296
Battersbell, R D 12845
Baumert, D 12472
Bay, E C 12389
Baynes, I O 12603
Bayona, I G 12817
Baz, T I 12709
Beard, C W 12564
Bedard, W D 12310
Belino, K 12565
Bell, K O 12376
Belmar, M 12683
Beniwal, S P S 12541
Benjamin, S A 12566
Benson, W R 12799
Benton, W J 12567
12568
Beresford-Jones, W P 12756
Berkelhammer, G 12738
Berliner, J P 12846
Berndt, W L 12741
Beroza, M 12341
12865
Besemer, S T 12507
Betts, A O 12557
Bhatt, B D 12532
Bickel, H 12847
Bidlingmayer, W L 12911
Biever, K D 12408
Bigler, W J 12749
Binns, W 12706
12707, 12708
Birchfield, W 12533
Birkeland, R 12569
Birt, L M 12326
Bishop, J R 12848
Blackman, R L 12312
Blank, B 12832
Bleiweis, S 12313
Blenden, D C 12570
Blodgett, E C 12417
Bluestone, H 12845
Blum, M S 12314
Boles, H P 12315
Bolin, F M 12664
Bone, J F 12571
Booth, J C 12572
Borden, J H 12316
Boren, F W 12715
Borkovec, A B 12320
Bose, B N 12785
Bosmann, A B 12573
Boston, M O 12368
Bostwick, D C 12849
Boulanger, P 12574
12622, 12698
Boulton, P S 12297
Bowers, W S 12323
Bowne, J G 12575
Boyce, C B C 12850
Braams, B 12851
Brackwell, C O 12630
Braham, J E 12755
Brauer, P 12576
Brazzel, J B 12476
Bressani, R 12755
Brian, R C 12544
Brickey, P M 12777
Brindley, T A 12344
12498
Briones, M L 12510
Brockway, A P 12317
Broderick, E J 12890
Bromfield, K R 12418
Brown, D A 12852
Brown, B F 12778
12779
Bruebl, G W 12419
Bruner, D W 12792
Brnst, B A 12390
Buchel, K-H 12853
Budden, R 12815
Bumgarner, J E 12314
Burgoyne, W E 12910
Burke, J 12800
Burke, J A 12801
Burkhardt, C C 12318
12854
Burns, K N 12577
Burt, E C 12346
12503
Butcher, C L 12420
Byerley, T J 12825
Byford, W J 12421
Byrne, J L 12665
Calhoun, M C 12578
Campbell, A D 12626
Campbell, C H 12579
Campbell, W V 12480
Cancilla, P A 12590
Carlisle, O B 12319
Carlson, S D 12780
12781
Carne, P B 12372
Carnes, W H 12590
Carroll, E J 12580
12700, 12701
Carson, C A 12581
Cassidy, D R 12582
Chakravarti, B P 12453
Chalkley, J H 12432
Chambers, A Y 12537
Chambers, O L 12481
Chambers, G 12399
Chandler, W A 12422
Chang, M T Y 12811
Chang, S C 12320
Chappelow Jr, C C 12825
Charton, A 12612
Chastain, E F 12583
Chavez, L 12626
Cheney, P W 12424
Cheng, T H 12740
Chilton, J E 12855
Chupp, J P 12856
Church, O C 12584
Clancy, D W 12482
Clark, G W 12712
Clark, T B 12391
Clausen, C 12585
Clements, A N 12321
Clements, B W 12322
Cleveland, T C 12912
Clor, M A 12826
Coats, J H 12843
Cobb, F W 12550
Coffman, J R 12625
Coggins, L 12586
Cole, H 12776
Coleman, O H 12475
Coleman, P H 12401
Coley-Smith, J R 12423
Collins, B O 12555
Connin, R V 12323
Cook, B J 12324
Cordes, O O 12587
Corneliussen, P E 12802
Corner, A H 12665
Correa, W M 12588
Cosens, D J 12325
Costantine, D G 12589
Costello, R A 12390
Coulson, W F 12590
Cover, M S 12567
12568
Cowart, W O 12591
Coyier, D L 12424
Craven, B R 12409
Crawford, R F 12893
Crompton, M 12326
Crossan, D F 12441
Cumming, B B 12592
Curnow, E A 12593
Curnow, J A 12593
12594
Curtin, T J 12392
Curyis, R A 12600
D'Amico, J J 12857
12858, 12876
Daams, J 12897
Dadd, R H 12327
Dahlsten, D L 12359
Dale, J L 12467
Daniel, M O 12595
Darley, E 12795
Davich, T B 12483
12503
David, I A 12328
Davis, E J 12596
Daynes, P 12757
De Gaetano, J F 12859
De Marco, P T 12597
Dean, G 12502
Dean, B A 12816
Dean, L L 12420
DeBolt, J 12492
Decker, G C 12329
Deming, J M 12860
Dennis, E B 12803
Dennis, S M 12598
Dentsch, M 12425
Dever, D A 12745
Devolt, H M 12662
Dew, D A 12546
Dew, S M 12630
Dexter, M 12599
Dickinson , D J 12423
Dickinson, E M 12623
Dimitrov, K 12642
Ditchfield, J 12600
Ditchfield, W J B 12601
Ditman, L P 12530
Doherty, P C 12602
12603
Dommermuth, C H 12604
Dougherty, E 12684
Dontre, M P 12605
12606
Dowell, F H 12393
Downes, J E 12885
Drummond, B O 12739
DuBose, B T 12604
Duerr, D 12861
Dury, K 12551
12833, 12863
Dusek, J 12607
Dntky, R C 12330
Dutton, J E 12608
Dyar, R C 12344
Dyte, C E 12331
Eaton, H D 12578
Eaton, J L 12332
Ebner, L 12861
Eddington, L C 12324
Edman, J D 12911
Edwards, C A 12803
Edwards, L J 12333
Eisenberg, W V 12777
El Badry, E A 12298
El-Agroud, M A 12609
Ellis, D J 12619
Ellis, P E 12319
Elsey, K O 12484
Emery, O A 12480
Empson, D W 12803
England, D C 12571
Engle, A T 12610
Epps, J M 12534
Erhart, A B 12715
Ernst, S E 12739
Eves, J 12493
Ewing, S A 12758
Faddoul, G P 12611
Fairchild, M L 12318
12854
Faltin, E C 12628
Fawcett, C H 12426
Faye, P 12612
Feldman, J M 12452
Fellig, J 12862
Fellin, D G 12913
Fellows, G W 12611
Fentem, B 12919
Ferraz, F P 12730
Ferris, J M 12535
Filshie, B K 12334
Fiocre, B 12613
Firestone, D 12626
Fischer, A 12551
12833, 12863
Fitzgerald, P B 12614
Fliegel, P 12438
Flint, H M 12485
Flowers, R A 12465
Flynn, A D 12914
Folckemer, F B 12772
Folkers, C 12733
Fontaine, L 12864
Fontenot, J P 12608
Ford, J B 12865
Forgash, A J 12335
12384
Forster, K 12615
Foster, N M 12616
Fonlk, J D 12336
Fox, I 12817
Fox, B C 12495
Fraenkel, G 12337
Franco, M G 12385
Freeman, K 12475
Freund, H E 12545
Freyherg, W 12866
Friemel, W 12866
Fries, G F 12805
Friesen, H A 12546
Fnester, R W 12378
Fugner, A 12818
Fuhremann, T W 12797
Fukuda, T 12391
Fuller, T C 12547
Furesz, I 12847
Furr, B E 12524
Futrell, M C 12427
Gahan, J B 12508
Gallo, G G 12847
Garvie, M B 12745
Gassie, J M 12409
Gast, B T 12483
Gaston, L K 12374
Gautam, O P 12617
Geary, R J 12867
Gelenczel, E F 12618
Gentry, C B 12527
Gerberg, E J 12915

Getty, S M

Getty, S M 12619
Gilbert, E I 12338
Gilbert, E N 12824
Gilbert, E E 12868
12869, 12870
Gill, C C 12428
Gillies, F A 12411
Gilliland, F R 12339
Giolito, S I 12429
Girard, A 12574
12622, 12698
Gitterman, C C 12878
Giuffrida, L 12849
Gladney, W J 12340
Glenn, E I 12681
Glick, B D 12366
Gold, M H 12871
Golden, A M 12470
12534
Goldsmit, L 12620
Gomez, B 12417
Gonzalez-Alcover, B 12401
Good, A L 12731
Goodhue, L D 12872
Goodwin, O E 12621
Goodwin, R F W 12572
Goonewardene, H F 12873
Gorz, H J 12504
Goss, R L 12430
Gouck, H 12341
Gould, C J 12430
Goulding, R L 12571
Graber, M 12759
Grace, T D C 12321
12334
Graham, J E 12303
12410
Grant, A M 12394
Gray, D P 12574
12622, 12698
Greenbaum, S R 12760
Greenhalgh, N 12761
Greenhalgh, W J 12827
Greer, F C 12471
Gregg, E J 12874
Grewe, F 12894
Griffin, T B 12874
Gross, W E 12604
Grover, R K 12431
Grummer, B H 12628
12660
Gruvel, J 12759
Guerin, Lf 12699
Guerra, A A 12528
Guthrie, O M 12342
Guttmann, A T 12875
Gwiazda, M 12343
Gysin, H 12896
Hagen, A F 12486
Hagimoto, H 12835
Hale, R L 12525
Hall, R C 12578
Hammond, D M 12762
Hammons, B O 12500
Hanlin, R T 12432
Hanson, B P 12623
Harcourt, D G 12487
Hardee, D D 12483
Harding, J A 12344
12488
Harjung, M K 12471
Harman, O M 12345
Harman, M W 12876
Harris, F A 12346
Harris, H E 12877
Harris, S A 12878
Harrison, R A 12403
Harrold, O 12721
Hart, R D 12852
Harting, J 12828
Hartley, G S 12879
Harvey, J E 12500
Harvey, W R 12347
Haskell, J A 12347
Hatt, B W 12880
Hauhein, A H 12881
Hawkes, R B 12916
Hearst, R B 12624
Henderson, J W 12763
Henderson, W H 12655
Henneberry, T J 12381
12505
Hensley, S O 12511
Henson, J B 12691
Heron, R J 12348
Herr, R B 12842
12882
Herschler, R J 12433
12829
Herzog, H L 12877
Hetrick, F M 12662
Hibbard, R B 12883
Hibbs, C M 12625
Hibler, C P 12774
Higginbotham, G R 12626
Higgins, J J 12470
Hill, C H 12489
Hjerpe, C A 12627
Hoch, P E 12884
Hocking, O 12434
Hodel, E 12764
Hoekstra, W G 12628
12660
Boelscher, C E 12816
Hoffman, J O 12377
Hoffman, K 12706
Hoffmann, R L 12395
Hofstad, M S 12629
Holbrook, A A 12765
12770
Hollis, J P 12536
Holman, H H 12630
Holper, J C 12631
Holt, R W 12423
Holton, C S 12435
12436
Homer, R F 12885
Hopkins, T R 12886
Hotchkiss, O K 12370
Hourrigan, J L 12922
Howard, J R 12632
Hower, A A 12740
Howes, R 12879
Hsiao, C 12337
Huddleston, P A 12483
Hudon, M 12490
Hulbert, L C 12678
Hulinska, I 12766
Hummon, O J 12922
Humphrey, R P 12610
Bumphrey, W A 12507
Humphries, D A 12349
Hunt, R D 12633
Huque, H 12350
Hurt, B O 12578
Husbands, R C 12396
Ichikawa, S T 12767
Ikeshoji, T 12351
Iotov, M 12642
Irving, G W 12925
Iserson, H 12830
Ishihara, T 12491
Ishii, T 12768
Iverson, L G K 12928
Ives, W G H 12352
Jacobson, M 12492
James, H G 12397
James, L F 12705
12706, 12707
James, Lf 12708
Jamison, J D 12887
Jansen, G J 12670
Jantz, O K 12323
Jaskoski, B J 12634
Jasmin, A M 12635
Jefferson, R N 12507
Jennings, J 12399
Jochim, M M 12575
12654
Johansen, C 12493
Johnsen, R E 12796
Johnson, A J 12765
Johnson, R L 12636
Johnson, C A 12610
Johnson, L F 12537
Johnson, R S 12888
Johnston, H 12889
Jolly, R D 12600
Joly, P 12437
Jones, F G W 12538
Jones, J C 12353
Jones, R H 12616
Jones, R P 12388
Jonsson, L 12819
Joshi, R G 12494
Jotwani, M G 12783
Jungermann, E 12875
Kahle, P F 12438
Kahrs, R F 12637
Kakuk, T J 12638
Kalkandelen, A 12495
Kalode, M B 12496
Kamikado, T 12835
Kane, E A 12805
Kantack, B H 12741
Kaplanis, J N 12330
Kardatzke, M L 12820
Kasel, J A 12558
Kashin, P 12820
Kaspers, H 12894
Kataria, R S 12639
Kaufman, H A 12890
Keeler, B F 12708
Keenum, W D 12662
Kellen, W R 12391
Kendrick, E L 12446
Kennick, W H 12584
Kerr, K M 12581
Kervina, L 12354
Kessel, J F 12640
Khahibrakhmanov, Kh 12806
Khan, C K A 12641
Kharalambiev, Kh 12642
Kiggins, E M 12631
Killingsworth, R F 12395
Kilpatrick, R A 12447
Kilsheimer, J R 12891
12892
Kimhall, J H 12917
Kincade, R T 12476
Kindler, S D 12497
King, J E 12423
King, N W 12633
Kishaba, A N 12492
Kitasaki, K 12893
Klaassen, H E 12299
Klauke, E 12894
Klein, A K 12807
Klun, J A 12498
Knapp, F W 12742
Knecht, C D 12643
Knight, V 12558
Knott, C M 12527
Knowles, R N 12895
Knusli, E 12896
Koehler, C S 12499
Koger, L M 12644
Kohler, H 12645
Kohls, R E 12560
Koopman, H 12897
Kopecky, K E 12646
Konwenhoven, R 12733
Kovacs, M F 12898
Kowalczyk, T 12660
Kozacik, A P 12899
Kozlowski, T T 12548
Kradolfer, F 12847
Kramer-Zeeuw, A 12727
Kressin, E L 12485
Krieger, O L 12327
Kronfeld, D S 12661
Kuhle, E 12894
Kulman, H M 12345
Kump, W 12847
Kunstmann, M P 12900
Kuta, J E 12762
L'Ecuyer, C 12647
Lacher, V 12355
Laferriere, L 12420
Lam, J J 12377
12527
Lamade, W 12931
Lambrech, J A 12901
Lane, R C 12346
Langley, P A 12356
Lapeire, C 12725
Lapidus, M 12648
Larsen, A B 12646
Larsen, M J 12462
Lascelles, A K 12682
Lasmanis, J 12700
12701
Laster, M L 12476
Le Layec, C 12612
Lefkovitch, L P 12300
Lehnhardt, P J 12649
Lehrich, J R 12558
Leighton, R L 12580
Lemhke, A 12650
Leonard, D E 12357
Lesher, G Y 12902
Lenck, O B 12500
12501
Lewallen, L L 12396
Lewis, L C 12370
Lewis, T 12301
Li, C S 12790
Lihay, J L 12393
Lichtenstein, E P 12797
Liebermann, H 12651
Lin, C W 12628
Linam, J H 12402
Lincoln, C 12502
Lindegren, J E 12391
Lindley, E P 12652
Linfield, W M 12875
Lingren, P D 12358
Link, J O 12807
Linker, A 12590
Lloyd, E P 12346
12503
Loan, B W 12696
Loebenstein, G 12425
Loev, B 12873
Lofgren, C S 12368
12508
Lombardo, P 12869
Lorah, C L 12903
Lord, K A 12343
Loschiavo, S R 12784
Lowry, W L 12528
Loy, V A 12918
Lucas, J M S 12773
Lnchsinger, D W 12653
Luck, R F 12359
Lndwig, P D 12400
Luedke, A J 12575
12616, 12654
Lnkes, G E 12539
Lnnd, E E 12769
Lykken, L 12926
12929
Lyss, S B 12401
Machado, A 12919
MacLeod, E G 12360
Madden, O L 12655
12656
Madden, P A 12765
12770
Maddox, J V 12329
Magnns, I A 12328
Mahany, P G 12315
Maheshwari, R 12439
Malik, Q R 12350
Malina, M 12904
Mallavia, L P 12657
Malle, A L 12758
Malueg, K W 12302
Manasse, R J 12440
Manglitz, G R 12486
12504
Manners, C I 12658
Manning, D T 12892
Manning, W J 12441
Marcus, H J 12871
Martin, H 12659
12771
Martin, R J 12808
Mason, D J 12842
Mason, R C 12505
Masuda, K 12768
Mathre, D E 12442
Matsnmoto, Y 12361
Matthysse, J G 12743
12744
Maxwell, C V 12660
Maxwell, C W 12506
May, L L 12366
Mayer, G P 12661
Mayer, V M 12662

Mazzola, N P 12920
McCain, C S 12663
McCartney, W C 12443
McClelland, G A H 12398
McCullough, N B 12656
McDaniel, H A 12582
McGovern, T F 12341
McGovern, W I 12505
McGrew, J R 12444
McGuffin, W C 12362
McIlwain, P K 12664
McKay, K A 12665
McKee, G W 12776
McKibben, G H 12483
McKiel, J A 12745
McKinley, W F 12921
McLean, D M 12445
McLean, R G 12821
McLeod, H A 12921
McMartin, D A 12666
McNeill, J C 12400
Medley, J G 12746
Melchior, F W 12567
Melendez, L V 12633
Menn, J J 12772
Merkl, M E 12483
12503
Mermerski, K 12642
Metivier, J 12747
Metzger, E J 12446
Meursinge, J A 12670
Meyer, R M 12715
Mezei, C 12363
Micks, D W 12399
12400
Middleton, J T 12795
Milani, R 12385
Miller Jr, A 12772
Miller, D D 12809
Miller, P I 12364
Miller, V I 12430
Miller, W O 12400
Millers, I 12365
Milne, F J 12667
Miner, M I 12762
Minson, K L 12303
Minter, P C 12930
Misdorp, W 12679
12680
Mitchell, C A 12699
Mitchell, E E 12483
Miyamae, T 12668
Moffitt, C 12481
Moine, G 12669
Molberg, E S 12549
Moller, K 12670
Monroe, C B 12671
Moody, A F 12447
Mookherjee, P B 12785
12787
Moore, W D 12529
Moorefield, H H 12891
Morehouse, L G 12582
12591
Morel, P C 12748
Morgan, L W 12500
Morishita, F S 12507
Morris, L 12401
Morsink, F 12540
Morsy, T A 12692
Morton, D J 12441
Mosses, H E 12655
Motsinger, R 12533
Mount, G A 12508
Mozier, J O 12822
Muggenburg, E A 12660
Mulhern, T D 12919
Munro, J W 12786
Murphy, J C 12672
Myers, H 12899
Nagi, M S 12673
Nagington, J 12651
Nair, K B 12509
Narayana, C L 12494
Nault, L R 12448
12510
Neel, W W 12366
Neff, J M 12401
Negm, A A 12511
Negron, H 12401
Nelms, N M 12382
Nelson, D L 12822
Nelson, N C 12674
Nelson, R C 12810
Nemec, S 12449
Nene, Y L 12463
New, T R 12367
Newburgh, R W 12363
Newling, P E 12670
Nichols, C W 12795
Nichols, J B 12749
Nicoletti, P 12675
Nielsen, G R 12744
Nielsen, L T 12402
Nielson, M W 12512
Nikolov, I 12642
Niphadkar, S M 12750
Nord, N 12703
Nordkvist, M 12751
Noronha, F 12566
Norris, D M 12338
Nusbaum, S R 12676
O'Hara, J L 12677
Oatman, E R 12513
Ochiai, M 12835
Oehme, F W 12678
Olson, C 12638
Ongar, H 12773
Coyen, P G Van 12679
12680
Orozco, H I 12817
Osburn, B I 12681
Osman, O A 12709
Otta, J D 12442
Cutteridge, P M 12682
Pachaly, L 12683
Pacheco, A C 12588
Packer, R A 12646
12726
Padula, A 12744
Parham, P H 12831
Parish, C L 12424
Parker, K G 12438
Parmeter, J R 12550
Parrott, D M 12538
Patterson, R S 12368
Patton, R L 12333
Patty, R E 12684
Paulsen, A Q 12450
Paulson, D R 12304
Pearce, H G 12600
Pearson, W G 12403
Peay, W E 12514
Pendleton, R F 12744
Penikas, V T 12685
Perek, M 12736
Perie, N M 12733
Peters, R F 12404
Petersen, J J 12405
Petit, J P 12686
Phelps, R H 12451
Picken, J C 12370
Piker, J F 12674
Pilet, C 12687
Pilet, P E 12832
Plank, J D 12634
Plant, N C 12496
Pontis, R E 12452
Porter, C V 12406
Porter, J N 12900
Poulson, D F 12334
Powell, H S 12688
Pradhan, S 12515
Prasse, R 12689
Principotto, J V 12599
Proctor, J R 12745
Quraishi, M S 12369
Rabb, R L 12484
Rachlin, A I 12862
Rakotondramary, E 12690
Ralston, A T 12584
Ramaprasad, G 12494
Ramberg, C F 12661
Ramisse, J 12690
Rangarajan, M 12453
Rao, R R 12691
Rao, S R 12750
Ratcliffe, R H 12479
Raun, E S 12370
Rawlins, W A 12371
Raybould, J N 12823
Razin, S 12736
Reed, E M 12372
Reed, H E 12537
Rees, D M 12405
Reese, N A 12660
Rehacek, J 12334
Rehmet, A 12399
Reicheneder, F 12551
12833, 12863
Reimann, E M 12660
Reina-Guerra, M 12721
Retnakaran, A 12516
Reusser, F 12882
Reynolds, H A 12643
Reynolds, I M 12712
Rich, A E 12447
12454, 12455
Richardson, H H 12517
Riche, S 12388
Richter, S 8 12846
Ridgway, R L 12358
Rifaat, M A 12692
Rigterink, R H 12905
Riner, J C 12824
Riordan, D F 12407
Robbins, W E 12330
Roberts, B R 12456
Roberts, D S 12693
Roberts, H F 12628
Robson, H J 12670
Rochow, W F 12457
Roerink, J H G 12694
Rogers, A J 12322
Rogers, C E 12742
Rohovsky, M W 12695
Rosenbaum, J 12773
Rosenberger, J K 12568
Rosenquist, B D 12696
Rosenthal, S S 12499
Ross, G J S 12538
Roth, H 12517
Rousseau, J E 12578
Rowell, C H F 12297
Rowell, J O 12518
12519, 12520, 12521
12522, 12523, 12752
Royal, W A 12587
Rubarth, S 12819
Rubin, L F 12697
Rubin, M 12599
Rubin, R 12774
Ruckerbauer, G M 12574
12622, 12698
Ruprah, N S 12753
Rusch, R 12472
12545
Saario, C A 12374
Sadek, I M 12609
Salam, A 12641
Salerno, L J 12597
Sandholm, M 12719
Sasaki, S 12548
Sattar, S A 12699
Sauli, M 12747
Saunders, P J W 12458
Saurino, V R 12601
Sawicki, R M 12385
Scales, A L 12524
Schaefer, C H 12373
Schalm, O W 12700
12701
Schieber, E 12459
12460
Schmidt, C H 12908
Schmidt, H P 12754
Schmidt, P 12659
12771
Schneiderman, H A 12317
Schonhorst, M H 12512
Schulz, K R 12797
Schulze, P 12651
Schumacher, A 12645
Schwartz, H 12834
Schwebs, M 12714
Schwerdle, A 12461
Scott, W P 12912
Selman, I W 12413
Sensi, P 12847
Shadduck, J A 12702
Sherman, M 12811
Shorey, H H 12374
12525
Shortino, T J 12330
Shortridge, E H 12587
Shulov, A 12383
Shuman, R D 12703
12704
Shupe, J L 12705
12706, 12707, 12708
Silverborg, S B 12462
Simeonov, S 12642
Simpson, C F 12775
Singh, B 12541
Singh, K V 12709
Singh, R S 12541
Singh, S 12415
Sinha, B P 12787
Sinha, P K 12710
12711
Sinha, R N 12788
Sinha, S K 12463
Sircar, P 12783
Sirohi, S S 12431
Sittig, M 12906
Sjogren, R D 12408
Skrentny, R F 12797
Sloss, M W 12632
Slusher, R 12643
Sluss, R R 12305
Small, E 12643
Small, W A 12464
Smiley, J H 12465
Smith, D B 12503
Smith, D H 12571
Smith, F F 12505
Smith, H 12880
Smith, H Q 12830
Smith, R E 12712
Smittle, B J 12375
Solomon, G C 12589
Somnitz, M 12714
Soni, J L 12639
Spalatin, J 12623
Spencer, D M 12426
Spencer, E Y 12907
Stadelbacher, E A 12526
Stanger, C E 12514
Starr, R I 12796
Steck, W 12713
Steelman, C D 12409
Stellmacher, W 12714
Sternburg, J G 12332
Stewart, J W 12376
Stewart, P A 12377
12527
Stiles, D A 12715
Stoev, I 12642
Stone, W M 12775
Storherr, R W 12812
Strafuss, A C 12716
Streams, F A 12378
Strickland, R K 12922
Sugiyama, S 12361
Summers, W A 12717
Sun, Y P 12373
Suryanarayana, D 12466
Suttie, S W 12556
Swenson, A A 12514
Switzer, W P 12718
Szatalowicz, F T 12570
Taber, S 12314
Tadic, M 12380
Takamatsu, Y 12768
Tarjan, A C 12542
Tarmura, H 12835
Taul, L K 12688
Taylor, D 12719
Teigland, M B 12601
Tendler, M D 12720
Tennant, B 12721
Terranova, A C 12908
Terry, P H 12320
Theilen, G H 12580
Therrien, A A 12918
Thomas, G D 12382
Thompson, A H 12917
12923
Thomson, W T 12909
Tingle, F C 12503

Tipton, C I

Tipton, C I 12498
Toba, H H 12492
Todd, A C 12560
Toma, B 12687
Toribara, T Y 12813
Torrie, J H 12548
Townsbip, E 12738
Toyosato, T 12835
True, B P 12366
Tso, T C 12836
Tucker, M C 12467
Tuomi, J 12719
Uilenberg, G 12725
Usenik, E A 12731
Valtonen, M 12719
Van den Hoogaart, K 12468
Van Der Maaten, M J 12726
Van Der Schaaf, A 12727
Van Ness, G B 12728
Van Overbeek, J 12838
Van Pottelsbergbe, P 12837
Vance, H N 12729
Vanderwagen, I C 12583
Veldbuis, B 12868
Veltman, P I 12552
Verma, J D 12673
Vigario, J D 12730
Vivaldi, E 12683
Vogel, S 12379
von Milczewski, K E 12650
Voth, V 12525
Vroman, H E 12330
Waddell, G H 12601
Wagner, P A 12738
Wagstaff, K H 12410
Waisman, J 12590
Walkley, C G A 12469
Walworth, B I 12839
Ward, G E 12671
Warner, H 12813
Warren, L O 12380
Waterworth, B E 12470
Watson, J A I 12790
Wave, H E 12381
Weathers, I G 12471
Weber, A F 12731
Webster, O J 12427
Wegler, E 12894
Weissman, N 12590
Welsh, E A 12674
Werres, H 12472
West, J L 12758
Wbetstone, T M 12739
Whipp, S C 12731
Whitcomt, W H 12376
White, K E 12411
White, R G 12822
Whittemore, A D 12794
Whittlestone, P 12572
Wildman, J W 12793
Wilbelm, A 12771
Wilhelm, M 12659
Wilkening, M C 12732
Wilkens, J L 12306
Wilkies, H 12714
Williams, J E 12794
Williamson, T B 12429
Willis, B I 12307
Willis, N G 12622
Wilson, S G 12733
Wingo, C W 12382
Winterfield, B W 12734
Wolfenbarger, D O 12528
12529
Womeldorf, D J 12411
Wong, K Y 12543
Wood, H 12773
Wood, R L 12703
12704
Woodall, D P 12589
Woodall, K I 12530
Woods, C W 12320
Woodward, K T 12735
Wright, P C 12824
Wright, R G 12791
Wurzer, B 12553
Yamini, B 12561
Yinon, U 12383
Young Jr, R 12767
Young, P A 12473
Younger, R L 12824
Yurugi, S 12768
Zentmyer, G A 12460
12474
Zerabn, K 12347
Zimmermann, W J 12716
Ziv, R 12736
Zummo, N 12475
Zupancic, T 12554

A. G. Schering, Berlin, Germany 12545
Abbott Laboratories, North Chicago, Illinois 12631
Aerojet-General Corporation, Azusa, California 12871
Agricultural Research Council, Slough, England
  Pest Infestation Laboratory 12300
Allied Chemical Corporation, New York, N. Y. 12868
Allied Chemical Corporation, New York, N.y. 12869 12870
Amchem Products, Inc., Ambler, Pennsylvania 12852
Amchem Products, Inc., Ambler, Pennsylvania
  Agricultural Chemical Laboratories 12848
American Cyanamid Company, Stamford 12738
American Cyanamid Company, Stamford, Conn. 12839 12840
  12841 12900
American Home Products Corporation, New York 12648
American Veterinary Medical Association 12559
Argonne National Library, Argonne, Illinois
  Chemistry Division 12851
Arizona Agrochemical Corporation 12855
Arkansas State Plant Board, Little Rock
  Plant Industry 12467
Armour And Company, Chicago, Illinois 12875
Badische Anilin- + Soda-Fabrik Aktiengesellschaft 12551
  12833
Beecham Group Limited, Brentford, England 12880
Biotechnical Faculty Ljubljana 12354
California Department of Agriculture, Sacramento
  Bureau of Plant Pathology 12443
Canada Department of Agriculture
  Research Station 12549
Central Veterinary Laboratory, Weybridge, Surrey 12577
  12630
Chemagro Corporation
  Research and Development
  Animal Health Section 12822
Chemagro Corporation, New York, N.y. 12531
Ciba Corporation, New York 12659 12771
Ciba Limited, Basel, Switzerland 12847 12861
Colorado State University 12729
Cornell University
  New York State Veterinary College
  Department of Pathology 12566
Cornell University, Ithaca
  Department of Plant Pathology 12438
Crown Zellerbach Corporation, San Francisco, California
  12433 12829
Dawe's Laboratories, Inc., Chicago, Illinois 12671
Denmark Statens Skadedyrlaboratorium 12782
Diamond Alkali Company, Cleveland, Ohio 12845
Dow Chemical Co, Midland, Michigan 12903
Dow Chemical Company, Midland, Michigan 12883 12889
  12905
Du Pont de Nemours (e I) And Company, Wilmington 12888
du Pont de Nemours (e I) And Company, Wilmington, Delaware
  12895
East African Tropical Pesticides Research Institute, Arusha
  12434
Farbenfabriken Bayer Aktiengesellschaft, Leverkusen 12894
Fealott's Hill Research Station, Bracknell, England 12544
Fisons Pest Control Limited, Barston, England 12879
FMC Corporation, Middleport, New York
  Niagara Chemical Division 12804
Frio County Agricultural Research Foundation, Pearsall, Tex.
  Experiment Farm 12473
Geigy (j R) A.-G., Basel, Switzerland 12764
Georgia Experiment Station, Experiment 12422
Georgia Experiment Station, Experiment
  Department of Plant Pathology 12432
Grace (W R) And Company, New York, New York 12552
Great Britain. National Vegetable Research Station. Warwick
  12469
Guatemala Direccion General de Investigacion y Extension
  12459 12460
Harvard University, Cambridge, Massachusetts 12379
Hercules Incorporated 12881 12887
Hoffman-La Roche Inc., Nutley, N.j. 12862
Hooker Chemical Corporation, Niagara Falls 12760
Hooker Chemical Corporation, Niagara Falls, New York 12884
Idaho State Department of Agriculture, Boise 12420
Imperial Chemical Industries Limited, London 12885
Imperial Chemical Industries Limited, London, England 12761
Institute of Nutrition of Central America and Panama 12755
Iowa State University, Ames, Iowa
  College of Veterinary Medicine, Ames, Iowa 12632
J.r. Geigy A.g., Basel, Switzerland 12896
Kansas State University
  Southeast Kansas Branch Station
  Garden City Branch Station 12715
Kimron Veterinary Institute
  Virus Dept. 12620
Lipha, Lyonnaise Industrielle Pharmaceutique 12864
Louisiana State University, Baton Rouge
  Department of Plant Pathology 12536
Ludwigshafen (rhine), Germany
  Badische Anilin- And Soda-fabrik Aktiengesellschaft 12863
Mallinck-rodt Chemical Works, St. Louis 12464
Mar-Sal, Incorporated, Philadelphia, Pennsylvania 12597
May And Baker Limited, Dagenham, England 12773
Merck And Company, Inc., Rahway, New Jersey 12878
Michigan State University
  College of Veterinary Medicine
  Dept. of Surgery and Medicine 12619
Mobil Oil Corporation 12899
Mobil Oil Corporation, New York 12890
Monsanto Company, St Louis 12858
Monsanto Company, St. Louis, Missouri 12856 12857 12860
  12876
Montana State University, Bozeman
  Department of Botany and Microbiology 12412
Museum D'Histoire Naturelle, Paris
  Laboratoire de Cryptogamie 12437
N.v. Fabriek Van Chemische Producten Vondelingenplaat 12468
Nalco Chemical Company, Chicago 12844
National Animal Disease Laboratory, Ames, Iowa
  Diagnostic Services
  Pathology Section 12582
National Institute of Health, Bethesda, Maryland
  National Institute of Allergy and Infectious Diseases
  Laboratory of Bacterial Diseases 12656
Nebraska Consolidated Mills Company, Omaha, Nebraska 12732
New Hampshire Agricultural Experiment Station, Durham 12447
  12454 12455
New York State Veterinary College
  Dept.of Large Animal Medicine, Obstetrics, and Surgery
  12637
New York State Veterinary College, Ithaca, New York 12792
North American Philips Company, Inc., New York 12897
Norwich Pharmacentical Company, Norwich, New York
  Research and Development Department 12610
Oregon State University
  Department of Botany and Plant Pathology 12449
Pennsalt Chemicals Corporation, Philadelphia 12830
Phillips Petroleum Company 12872
Plant Products Corporation, Vero Beach, Florida 12867
Punjab Agricultural University, Hissar
  Department of Botany and Plant Pathology 12466
Punjab Agricultural University, Ludhiana, India 12431
Razi State Institute
  Department of Animal and Poultry Diseases 12561
Rhone-poulenc S.a., Paris, France 12747
Rothamsted Experimental Station, Harpenden, England 12311
Rothamsted Experimental Station, Harpenden, Herts 12301
  12803
Royal Veterinary College, London
  Department of Pathology 12756
Schering A.g., Berlin, Germany 12472
Schering Corporation, Bloomfield, N.j. 12618
Schering Corporation, Bloomfield, New Jersey 12877
Shell Oil Company, New York 12767 12772 12850
Shell Oil Company, New York, N.y. 12838 12853
Smith Kline + French Laboratories, Philadelphia, Pa. 12873
Spencer Chemical Company, Kansas City, Missouri 12886
Stauffer Chemical Company, New York, N. Y. 12429
Stauffer Chemical Company, New York, N.y. 12539
Sterling Drug Inc., New York 12902
Takeda Chemical Industries Limited, Osaka, Japan 12768
Takeda Chemical Industries, Ltd., Higashi-ku, Osaka, Japan
  12835
Tenneco Chemicals, Inc. 12859
Texas AND M University, College Station
  Department of Veterinary Pathology 12691
Texas A And M University, College Station
  Department Of Agricultural Analytical Services 12874
The Upjohn Company, Kalamazoo, Michigan 12831
U S Department of the Army, Frederick, Maryland
  Fort Detrick
  Biological Sciences Laboratory 12418
U. S. Department of Agriculture, Logan, Utah
  Agricultural Research Service
  Animal Disease and Parasite Research Division
  Poisonous Plant Research Laboratory 12708
U.s. Agency for International Development, Samaru, Nigeria
  12427
U.s. Department of Agriculture 12581
U.S. Department of Agriculture
  Agricultural Research Service 12722 12723
U.s. Department of Agriculture
  Agricultural Research Service
  Animal Disease and Parasite Research Division 12707
U.s. Department of Agriculture
  Agricultural Research Service

Animal Health Division 12922
U.S. Department of Agriculture
Agricultural Research Service
Crops Research Division 12446 12475
U.S. Department of Agriculture
Agricultural Research Service
Plant Pest Control Division 12789
U.S. Department of Agriculture
Cooperative States Research Service 12442
U.S. Department of Agriculture, Beltsville
Agricultural Research Service
Crops Research Division 12444
U.S. Department of Agriculture, Charleston, S. C.
Agricultural Research Service
Crops Research Division
Vegetable Breeding Laboratory 12445
U.S. Department of Agriculture, Glenn Dale, Maryland
Agricultural Research Service
New Crops Research Branch
Plant Introduction Station 1247D
U.S. Department Of Agriculture, Gulfport, Mississippi
Plant Pest Control Division 12865
U.S. Department of Agriculture, Hood River, Oregon
Agricultural Research Service
Crops Research Division 12424
U.S. Department of Agriculture, Ithaca, New York
Agricultural Research Service
Crops Research Division 12457
U.S. Department Of Agriculture, Washington, D.C.
Agricultural Research Service
Pesticides Regulation Division 12898
U.S. Department Of Agriculture, Washington, D.C.
Agriculture Research Service 12925
U.S. Department Of Health, Education, And Welfare 12720
U.S. Department Of The Army, Frederick, Maryland
Fort Detrick
Crops Division 12416
U.S. Dept. of Agriculture, Altany, N.y. 12675
U.S. Dept. Of Agriculture, Beltsville 12836
U.S. Dept. of Agriculture, Beltsville, Maryland
Agricultural Research Service
Animal Disease and Parasite Research Division
Beltsville Parasitological Laboratory 12765 1277D
U.S. Dept. of Agriculture, Greenport, Long Island, New York
Agricultural Research Service
Animal Disease and Parasite Research Division
Plum Island Animal Disease Laboratory 12586
U.S. Dept. of Agriculture, Hyattsville, Maryland
Agricultural Research Service
Plant Pest Control Division 12928
U.S. Dept. of Agriculture, Kerrville, Texas
Agricultural Research Service
Animal Disease and Parasite Research Division
Toxicological Investigations Laboratory 12824
U.S. Dept. of Health, Education and Welfare
Public Health Service
Communicable Disease Center 12589
U.S. Food and Drug Administration 12724
U.S. Food And Drug Administration
Division Of Food Chemistry 12626
U.S. Food And Drug Administration
Division Of Microbiology 12777 12778 12779 12793
D.S. Food and Drug Administration, Washington, D.C.
Division of Food 12800
U.S. Food and Drug Administration, Washington, D.C.
Division of Food Chemistry 12799 128D1 128D7 12849
U.S. Public Health Service, Atlanta, Georgia 12930
U.S.dept. of Agriculture, Ames, Iowa
Agricultural Research Service
Animal Disease and Parasite Research Division
National Animal Disease Laboratory 12646
Union Carbide Corporation 12891 12892
Union Carbide Corporation, New York 12901
United Nations, Izmir, Turkey
Food and Agriculture Organization 12417
United States Borax And Chemical Corp, Los Angeles, Calif. 12893
Universidad Nacional de Cuyo, Mendoza, Argentina
Facultad de Ciencias Agrarias
Instituto de Sanidad Vegetal 12452
University of California, Riverside 12474
University of California, Riverside
Department of Plant Pathology 12471
University of Cambridge, England
School of Veterinary Medicine 12572
University of Cambridge, England
School of Veterinary Medicine
Department of Animal Pathology 12557
University of Delaware, Newark
Department of Plant Pathology 12441
University of Exeter
Department of Botany 12458
University of Florida, Lake Alfred
Citrus Experiment Station 12542
University of Kentucky, Lexington
Department of Plant Pathology 12465
University of London, Wye
Wye College
Department of Biological Sciences 12413
University of Missouri
Cooperative Extension Service 12814
University of Pennsylvania, Kennett Square, Pa.
School of Veterinary Medicine
New Bolton Center 12661
University of Sydney
Faculty of Veterinary
Department of Veterinary Pathology and Bacteriology 12598
University of Sydney, Camden, New South Wales, Australia
Dairy Research Foundation 12682
University of Tennessee, Knoxville
Department of Agricultural Biology 12537
University of Wisconsin
Department of Forestry 12548
Upjohn Company, Kalamazoo, Michigan 12842 12843 12882
Uttar Pradesh University, Pant Nagar
Department of Plant Pathology 12463
Velsicol Chemical Corporation, Chicago, Illinois 12904
Vineland Chemical Company, Vineland, N.j. 12461
Virginia Polytechnic Institute
Cooperative Extension Service 12489 12518 12519 12520 12521 12522 12523 12752
Volcani Institute of Agricultural Research, Israel
Virus Laboratory 12425
Washington State University, Pullman
Department of Plant Pathology 12419
Washington State University, Puyallup
Western Washington Research and Extension Center 1243D

☆ U.S. GOVERNMENT PRINTING OFFICE: 1968 O-300-987

U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D.C. 20250

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF AGRICULTURE

To stop mailing or to change your address send this sheet with new address to Pesticides Information Center, National Agricultural Library, Washington, D C. 20250